

**NOTICE OF INTENT TO MODIFY A PERMIT AUTHORIZING THE USE OF WATER FOR
GOLF COURSE IRRIGATION 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, Water Supply Engineering Section, 6200 Park Ave. Suite 200, Des Moines, IA 50321, an application as described below.

Hillcrest Country Club, Iowa DNR Log Number 34,139, requests to modify an existing water use permit (No. 2639-M7), authorizing to withdraw water directly from the North Raccoon River and from a Dallas County gravel pit, and from a North Raccoon River alluvial well, approximately 45 feet deep, all in the NE $\frac{1}{4}$ of Section 28, T79N, R27W, Dallas County, Iowa, in the maximum total quantity of 50 acre-feet per year at a maximum rate from each source up to 290 gallons per minute; storage of said water in a golf course irrigation pond (aka "Hillcrest Pond") with a surface area of about 1.5 acres; withdrawal of water from said irrigation pond in the maximum quantity of 50 acre-feet per year at a maximum rate of 400 gallons per minute, for a maximum cumulative total quantity of 100 acre-feet per year at a maximum cumulative instantaneous rate of 1270 gallons per minute, all during the period of April 1 through October 31 of each year, for irrigation of a nine-hole golf course located on land generally described as part of the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 21, part of the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 22, and part of the N $\frac{1}{2}$ of the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28, all in T79N, R27W, Dallas County, Iowa.

The Department has determined that this use of water conforms to the relevant criteria (Iowa Code Chapter 455B and Iowa Administrative Code 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 on this use of water must be received by January 20, 2025, and should be addressed "ATTN: Erik Day" and should specify the applicant's log number (Log Number 34,139).

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

Applicant: Hillcrest Country Club
27749 Prospect Ave
Adel, Iowa 50003-0243

Application Log No.: 34,139

Permit Request

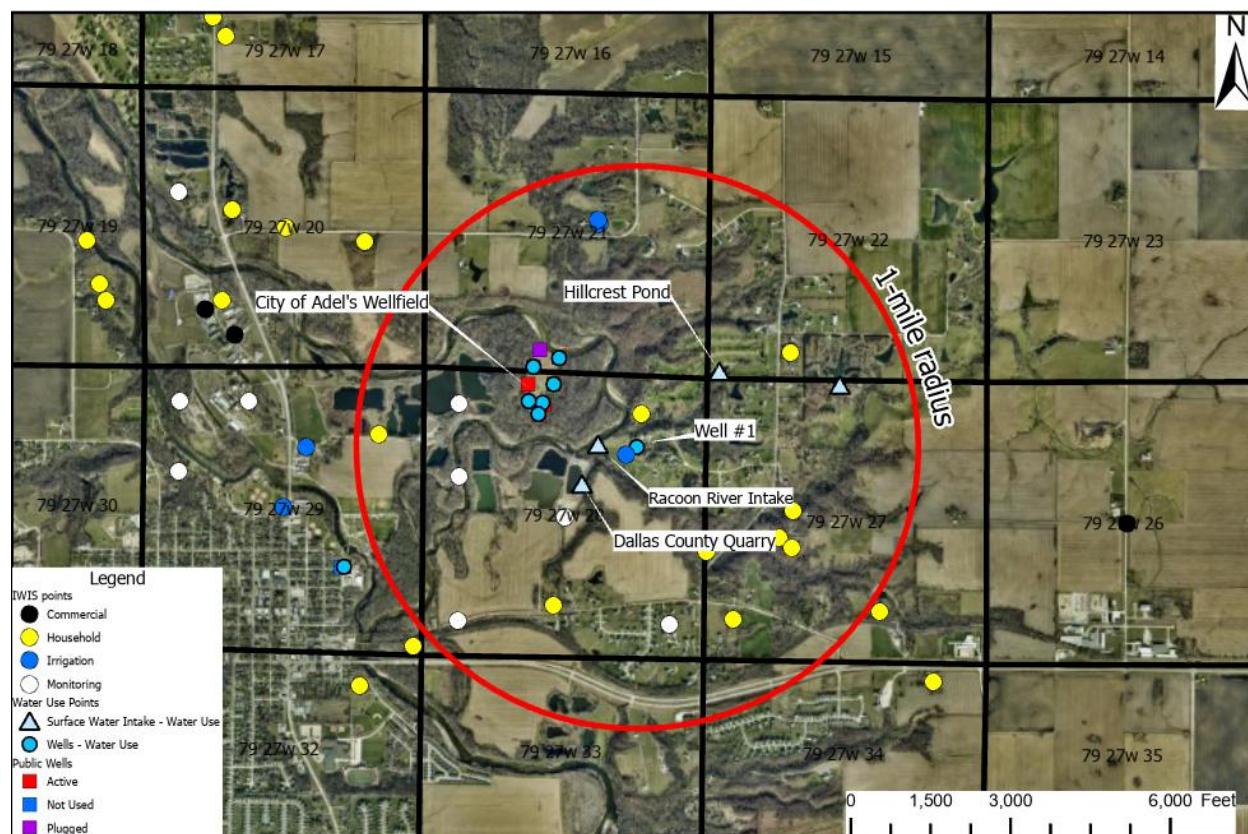
Hillcrest Country Club requests to modify their water use permit (2639-M7) to increase the maximum annual water allocation from an intake on the North Racoon River, an intake at a Dallas County gravel pit, and one Racoon River alluvial well, from 50 acre-feet per year (AFY) to 65 AFY, and to increase the maximum withdrawal rate from from their irrigation pond (aka "Hillcrest Pond)" from 150 gallons per minute (GPM) to 400 GPM, and to increase the maximum quantity from Hillcrest Pond from 50 AFY to 65 AFY, and to remove the new alluvial well that was approved in 2022 to withdraw at a maximum quantity of 50 AFY and a maximum rate of 200 GPM, for a maximum cumulative total of 100 AFY at a maximum cumulative instantaneous rate of 1270 GPM.

Their current permit allows to withdraw water from four sources: an intake on the North Racoon River, an intake at a Dallas County gravel pit, one Racoon River alluvial well, approximately 45 feet deep, all in the NW ¼ of Section 28, T79N, R27W, Dallas County, Iowa, in the maximum total quantity of 50 AFY at a maximum withdrawal rate of 290 GPM per source; storage of said water in Hillcrest Pond with a surface area of 1.5 acres; withdrawal of water from said pond for irrigation of the golf course in the maximum quantity of 50 AFY at a maximum quantity of 150 GPM, and withdrawal from a new alluvial well in the maximum quantity of 50 AFY at a maximum rate of 200 GPM, for a cumulative maximum quantity of 100 AFY and a maximum cumulative instantaneous rate of 1220 GPM, all during the period of April 1 to October 31 throughout each year, for irrigation of a nine-hole golf course on land generally described as part of the SE ¼ of the SE ¼ of Section 21, part of the SW ¼ of the SW ¼ of Section 22, and part of the N ½ of the NE ¼ of the NE ¼ of Section 28, all in T79N, R27W, Dallas County, Iowa.

The public land survey system (PLSS) location of the sources are:

- Well #1 - The SE ¼ of the NE ¼ of T79N, R27W, S28
- North Racoon River intake - The NW ¼ of the NE ¼ of T79N, R27W, S28
- Dallas County gravel pit – The SW ¼ of the NE ¼ of T79N, R27W, S28
- Hillcrest Pond – The SW ¼ of the SW ¼ of T79N, R27W, S22

Hillcrest Pond is located in the golf course located approximately 1/8 mile south and 1/8 mile west of the intersection of 278th Place and Prospect Avenue in Dallas County, northeast of the city of Adel (Map 1).



Map 1. Map of applicant's permitted water sources and nearby water use wells, private wells (IWIS points), and public water supply wells within a 1-mile radius (red circle). There are seven other water use wells within a 1-mile radius that utilize the Racoon River alluvial aquifer.

Beneficial Use

Water use for the permit is for irrigation of grass on the golf course. Iowa Code 455B.266 identifies non-general crop irrigation as a priority beneficial use.

Source Details

The North Racoon River alluvial aquifer, hereby referred to as the alluvial aquifer, will be detailed in this summary report, as it is the only source of water for the single well that is included in this permit request.

The applicant currently withdraws water from the alluvial aquifer. In this region, the North Racoon River, hereby referred to as the river, has a large meander, resulting in two stream segments. The applicant's sources are located on the east side of the eastern meander of the river. The sources include one alluvial well, one North Racoon River intake, and one Dallas County Gravel pit intake. These sources are all part of the alluvial aquifer. Water from those three sources are pumped and stored into the irrigation pond, Hillcrest Pond. Water is pumped from Hillcrest Pond through the irrigation system to water approximately 25 acres of grass for the golf course. The irrigation pond is the storage facility for all three sources, therefore, although it's withdrawals are part of the cumulative total water use, the water pulled from Hillcrest Pond is essentially a zero-net use of water.

The alluvial aquifer is broad and shallow in the proposed area with a total aquifer thickness of 30 to 40 feet. The alluvial aquifer and river valley are bounded to the west and east by till. The applicant's water sources are located on the eastern boundary of the alluvial/till interface. The alluvial aquifer is productive in the area. The City of Adel's alluvial aquifer well field consists of 6 wells, and is located approximately $\frac{1}{4}$ to $\frac{1}{2}$ mile west of the applicant's water sources. The City of Adel is allocated 375 million gallons per year (approximately 1150 AFY) at a maximum total rate of 800 GPM.

Based on available records, the alluvial aquifer is unconfined in the floodplain area between the two river channels – the location of the city of Adel's well field, and consists of approximately 40 feet of alluvial deposits ranging from fine-grained sand to gravel, cobbles, and boulders overlying Pennsylvanian bedrock. The aquifer is highly porous and transmissive. The City of Adel's 2024 water use report for a well of similar depth located approximately 600 feet north, indicated static water levels of seven alluvial wells that ranged from approximately 15-26 feet and pumping water levels (at rates up to 550 GPM per well) ranging from 26 to 44 feet.

The topography around the Applicant's well is east of the floodplain, and slopes upward to the east at the alluvial aquifer/till interface. The single well for the applicant is a shallow alluvial aquifer well located on the far east side of the alluvial aquifer boundary. The applicant has not historically reported static or pumping water levels from their well. The applicant attempted to construct a new well in 2023, but they did not encounter sufficient groundwater, likely due to the buried Racoon River alluvial deposits pinching out to the east as the till dominates the surficial deposits.

The applicant has obtained an easement with Dallas County and uses water from the North Racoon River, the Dallas County gravel pit, and an alluvial aquifer well, to maintain water levels in a pond for irrigation of a total of 25.1 acres of golf course sod consisting of about 1.1 acres of greens, 1 acre of tees, and 23 acres of fairway on a 56 acre property, located about ½ east of the North Racoon River and about 1 ¼ mile northeast of the municipal limits of the city of Adel, Iowa. Irrigation is by means of a fixed-head sprinkler system. The irrigation system pulls directly from the Hillcrest Pond, which is allocated 50 AFY, the maximum amount (2 acre-feet per acre per year) authorized by rule for irrigation of specialty crops (sod) for 25 acres.

Applicant's Dallas County gravel pit water source is an existing pit with a surface area of about 28 acres. The gravel pit is about 1/8 mile from the river and is recharged from the alluvial aquifers and surface water runoff. Because of the amount of water in the gravel pit is large, the adjacent aquifer should not be subject an extended cone of depression as a result water withdrawals made at the magnitude and rate requested by the Applicant. There have been no reports of well interference in the area of the Applicant's water withdrawals.

According to departmental records, the closest nearby neighboring water user, other than the Applicant, which requires the diversion of water in sufficiently large quantities to require a water use permit is the City of Adel's alluvial aquifer well field, which consists of 6 wells, approximately 40-50 feet deep, and are located approximately ¼ to ½ mile west of the applicant's water sources. The City of Adel is allocated 375 million gallons per year (approximately 1150 AFY) at a maximum total rate of 800 GPM. The only other permitted water user within a 1-mile radius is Tom Shattuck, who has an intake on a private farm pond located approximately ½ mile east of the applicant's property, to irrigate sod at a maximum quantity of 20 AFY at a maximum rate of 300 GPM. The department anticipates no impact from the Applicant's surface water withdrawals upon The City of Adel's wells because the surface water level will not drop a significant amount and because the city wells are located on the other side of the river, a major source of ground water recharge. The department anticipates no impact to Tom Shattuck's irrigation pond because it is nearly ½ mile away and because that pond is likely not connected to the alluvial aquifer based on the thickness of till east of the Racoon River valley, which increases in thickness to the east.

According to departmental records, there are no nearby neighboring downstream water users requiring the diversion of water from the North Racoon River in sufficiently large proportions to require a water use permit. Other downstream users requiring the diversion of water from the North Racoon River are protected by the maintenance of the required minimum flow in the river.

According to the Applicant, the nearest neighboring private wells not owned by the Applicant are one well, located about 1/16 mile south, and two or three wells, located about ¾ mile to the south of the Applicant's withdrawal site. Applicant presented no information about the construction of these wells. Because surface and ground water levels will not be lowered a significant amount by the Applicant's water withdrawals, these and more distant private wells should not be impacted by water withdrawals at the quantity and rate proposed 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.

The alluvial aquifer is recharged by precipitation and infiltration from nearby rivers and streams. In this area of Dallas County, the alluvial aquifer is highly productive and capable of producing moderate to large yields of water from properly constructed wells. The applicants proposed use of water should not have a significant impact on the availability of water from said aquifer.

Historic Water Use

The applicant has reported annual water use since 1994, with the exception of 1999. The applicant has not consistently reported usage from each separate source, so total usage has been used to evaluate their water use report trends. The department allocated 50 AFY from 1994-2004, then increased the allocation to 100 AFY from 2004 to 2014, due to increased water usage, then decreased the allocation to 50 AFY from 2014-2024, due to decreased usage. Reported water use from 2022 to 2024 was above the allocated limit of 50 AFY, which triggered the need to apply for a modification to increase the annual water allocation (Figure 1). The data shown in the water use report is for the total cumulative use. Over the last ten years, the Applicant has not exceeded the 50 AFY maximum allocation from the North Raccoon River, the Dallas County gravel pit, and an alluvial aquifer well, which is stored in Hillcrest Pond, and they haven't exceeded the 50 AFY maximum allocation for withdrawing from Hillcrest Pond to irrigate the turf grass. Therefore, the Applicant has not recently exceeded their maximum allocation, only the maximum withdrawal rate from Hillcrest Pond, which has a current maximum rate of 150 GPM, but they indicated that they have been using a maximum rate of 400 GPM.

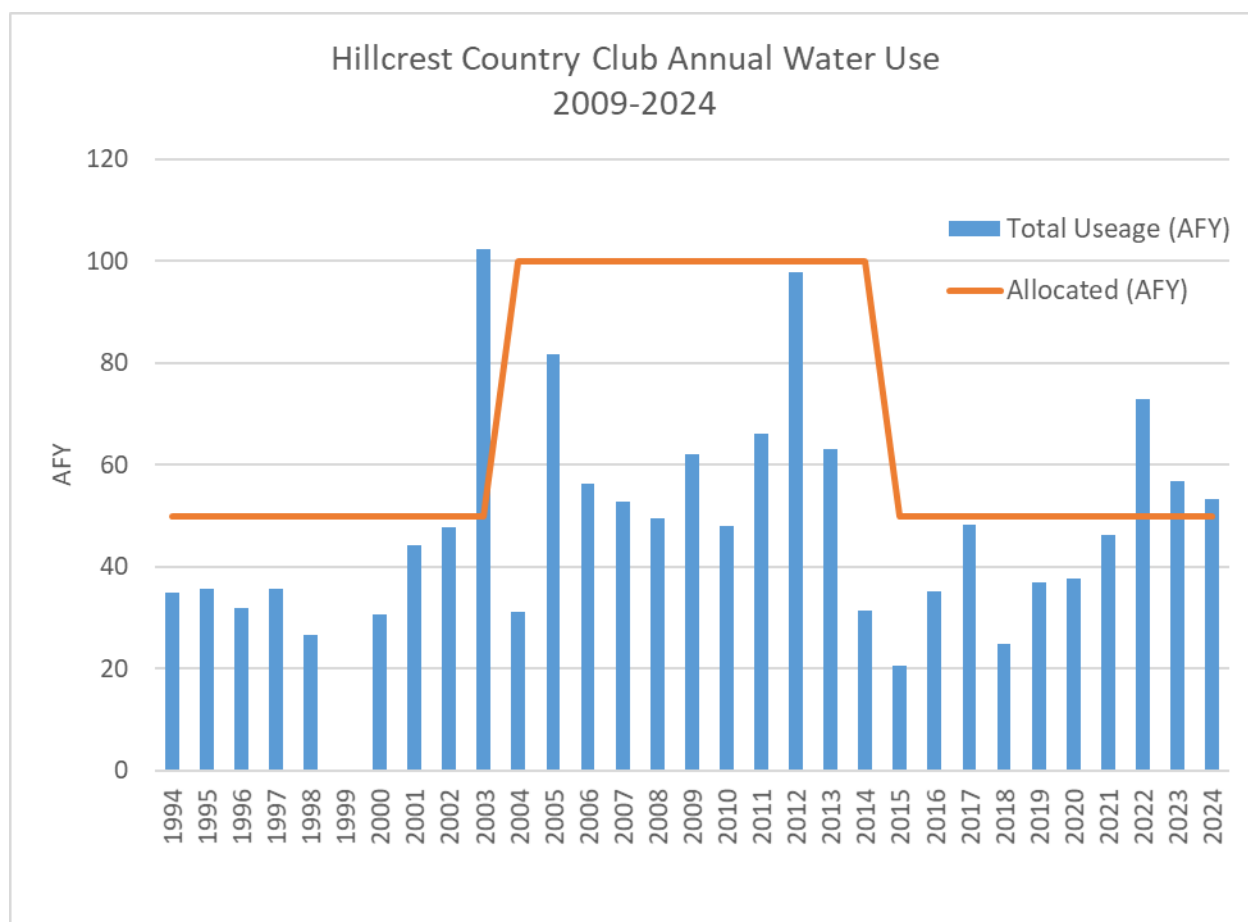


Figure 1: Annual water withdrawals in AFY for Hillcrest Country Club combined from all sources.

Nearby Wells and Potential Interference

According to the department's water use records and private well database, there are six other permitted water use wells within a 1-mile radius (table 1). All of these wells belong to the City of Adel's municipal water supply, as discussed earlier in this report. There is one other permitted user, Tom Shattuck, that has an intake to pull water from their private pond. Table 1 (below) lists all water use wells, water use facilities, and private wells within a 1-mile radius, including the last static water level and pumping water level, if available.

There are nine household wells, six monitoring wells, and four irrigation wells documented by the Iowa Wells Information System (IWIS) database within a 1-mile radius. Only one of the household wells has a well log to verify depth, well 2211667, located at a house on Ridge Rd, near the North Racoon River and located halfway between the Dallas County Gravel Pit and Hillcrest Pond. That well is completed to a depth of 82 feet and utilizes a thin sand layer located 60-69 feet deep as the water source, consistent with the elevation of the alluvial aquifer. Other household wells are estimated to be approximately 50 to 560 feet deep. Three of the irrigation wells have expired permits, meaning we cannot confirm that these wells were constructed. One of the expired irrigation permits is from the Applicant's proposed construction of a second alluvial well, however, this well was not completed because they could not find sufficient water during test drilling. One irrigation well is completed to a depth of 720 feet, but it is not a permitted use well.

Table 1: Water use wells, intakes, and private wells within a 1-mile radius of the Applicant's site, including the applicants. (NR = not reported; NA=not applicable; AFY=acre-feet/year; MGY=millions of gallons/year). Data is from the DNR's Water Allocation Compliance Online Permitting (WACOP) database and the Iowa Wells Information System (IWIS) database.

Owner	Permit #	Status	Desc. Or Well #	Facility Type	Depth (ft)	Static Water Level (ft)	Pumping Water Level (ft)	Water Level Measurement Date	Annual Allocation / Rate
HILLCREST COUNTRY CLUB	2639	Active	#1	Well	45	NR	NR	NR	50 AFY/290 GPM
HILLCREST COUNTRY CLUB	2639	Active	#1	Hillcrest Pond	NA	NA	NA	NA	
HILLCREST COUNTRY CLUB	2639	Active	#1	North Racoon River	NA	NA	NA	NA	
HILLCREST COUNTRY CLUB	2639	Active	#1	Dallas Co Gravel Pit	NA	NA	NA	NA	
CITY OF ADEL (WATER)	2298	Active	#2	Well	44	21	30	1/2/2025	375 MGY/800 GPM
CITY OF ADEL (WATER)	2298	Active	#3	Well	44	21	33	1/2/2025	
CITY OF ADEL (WATER)	2298	Active	#4	Well	59	23	44	1/2/2025	
CITY OF ADEL (WATER)	2298	Active	#5	Well	42	22	26	1/2/2025	
City of Adel (WATER)	2298	Active	#6	Well	44	22	30	1/2/2025	
City of Adel (WATER)	2298	Active	#7	Well	42	26.5	35.5	1/2/2025	
City of Adel (WATER)	2298	Active	#8	Well	200	15	28	1/2/2025	
Tom Shattuck	9273	Active	#1	Shop Farm Pond	NA	NA	NA	NA	20 AFY/300 GPM

Owner	Permit #	Status	Desc. Or Well #	Facility Type	Depth (ft)	Static Water Level (ft)	Pumping Water Level (ft)	Water Level Measurement Date	Annual Allocation / Rate
ADEL, CITY OF	34209	Active	2029231	Monitoring Well	36	NR	NR	NR	NA
ADEL, CITY OF	3421	Active	2029232	Monitoring Well	28	NR	NR	NR	NA
ADEL, CITY OF	34211	Active	2029234	Monitoring Well	35	NR	NR	NR	NA
ADEL, CITY OF	34214	Active	2029237	Monitoring Well	48	NR	NR	NR	NA
ADEL, CITY OF	34212	Active	2029235	Monitoring Well	46	NR	NR	NR	NA
ADEL, CITY OF	34204	Active	2029226	Monitoring Well	33	NR	NR	NR	NA
Mary Nichols		Active Water Test	2113536	Household Well	60	NR	NR	NR	NA
MARY SPOONEMORE		Active Water Test	2118368	Household Well	150	NR	NR	NR	NA
LARRY SPRING		Active Water Test	2123615	Household Well	560	NR	NR	NR	NA
BRIAN KREIFELS		Active Water Test	2136378	Household Well	50	NR	NR	NR	NA
Treg Marcellus		Active Water Test	2161351	Household Well	100	NR	NR	NR	NA
JIM CAREY		Active Water Test	2174957	Household Well	60	NR	NR	NR	NA
John Burger		Active Water Test	2173172	Household Well	50	NR	NR	NR	NA
Scott Jungmen Carey Drilling	50129	Expired	2197025	Irrigation Well	NA	NR	NR	NR	NA
JAG HOMES	50797	Expired	2199486	Household Well	NA	NR	NR	NR	NA
OCTAVIA 26 LLC	53169	Active Logged	2206828	Household Well	82	NR	NR	NR	NA
TIM PINCKNEY	54672	Active Completed	2211667	Irrigation Well	720	NR	NR	NR	NA
TIM PINCKNEY	53572	Expired	2208134	Irrigation Well	NA	NR	NR	NR	NA
Hillcrest Country Club	60842	Expired	2227882	Irrigation Well	NA	NR	NR	NR	NA

Impact on this alluvial aquifer from increasing the annual allocated amount to the Applicant should be limited to the immediate vicinity of the pumping well, quarry, and river intake, and it should not significantly impact these neighboring water users. Other, more distant, permitted water users should not experience any impacts resulting from the use of the Applicant's well at the volume and rate proposed.

A pumping test will not be required as part of this permit.

Aquifer Sustainability

Historically, only seven of the permitted use wells within a 1-mile radius have ever reported static and pumping water levels, and only three of those have data beyond a few years. The City of Adel has consistently reported both static and pumping water levels for three of their alluvial aquifer wells, all located between ½ to ¾ mile from the applicant's

sources, since 2017, and reported static water levels for those wells starting in 2012, so we will use these wells to evaluate aquifer sustainability.

Figure 2 (below) shows the reported static and pumping water levels. Static water levels appear relatively stable, and pumping water levels have fluctuated from year-to-year, but overall appear stable. Based on this data, water levels in the alluvial aquifer appear to be stable.

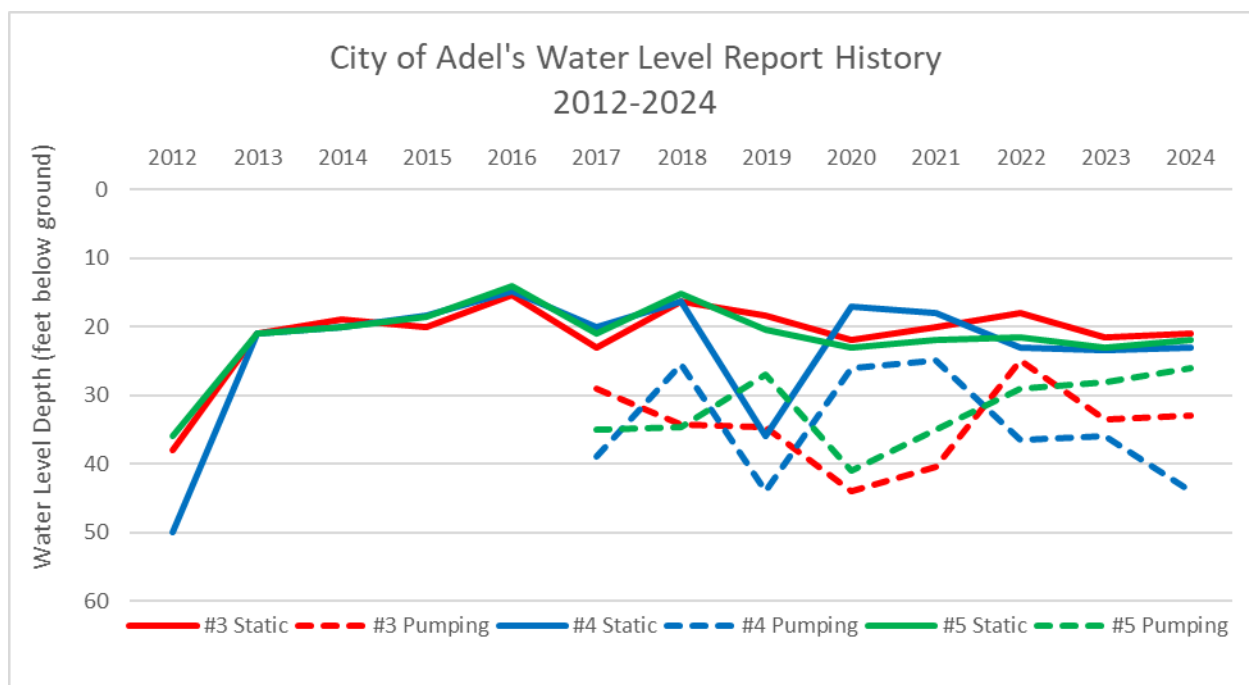


Figure 2: Water level reporting data for the City of Adel’s well #3, #4, and #5, with static water levels (solid) and pumping water levels (dashed) from their annual reports from 2012-2024. Pumping water levels were reported starting in 2017.

Findings

The applicant has demonstrated the ability and intent to use a reasonable quantity of water for beneficial purposes from the proposed well. The applicant proposed to increase the total cumulative maximum allocated amount from 50 AFY to 65 AFY , and to increase the maximum rate from Hillcrest Pond from 150 GPM to 400 GPM, however, the request to increase the maximum allocation to 65 AFY is not needed because the total cumulative amount is currently set to 100 AFY, with 50 AFY allocated to fill Hillcrest Pond, and 50 AFY allocated to withdrawal from the pond for irrigation. The request to increase the maximum rate to 400 GPM is reasonable.

No evidence suggests the proposed use would:

- Waste water resources.
- Conflict with Iowa’s comprehensive water resource plan.
- Interfere with pollution control laws.
- Directly harm public interests or property owners with prior or superior water use rights.

The nearest documented private household well is approximately ¼ mile northeast of both the North Raccoon River Intake and the Dallas County Quarry, and it is about 600 feet south of Hillcrest Country Club’s Well, and ¼ southeast of Hillcrest Pond. There is little likelihood of well interference with private wells screened in the same aquifer because the aquifer appears to be stable, there are few permitted users, and because no historical well interference claims have been made near this location.

THEREFORE:

The requested water use conforms to Division III, Part 4, Chapter 455B of the Iowa Code and Chapter 50 of Part 567 of the Iowa Administrative Code. No adverse impacts on other water users are anticipated at this time. Subject to public notice and potential revisions based on comments received, a draft permit should be issued for a term of ten years.

Water Supply Engineering
Date: 12/19/2025

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER USE PERMIT

Permit issued to:	Permit Number:	2639-M8
HILLCREST COUNTRY CLUB		
ZEB OSEN	Effective:	XXXXX
27749 PROSPECT AVE		
ADEL IA 50003	Expires:	XXXXX

The Permittee is authorized to:

withdraw water directly from the North Raccoon River and from a Dallas County gravel pit, and from a North Raccoon River alluvial well, approximately 45 feet deep, all in the NE ¼ of Section 28, T79N, R27W, Dallas County, Iowa, in the maximum total quantity of 50 acre-feet per year at a maximum rate from each source up to 290 gallons per minute; storage of said water in a golf course irrigation pond (aka "Hillcrest Pond") with a surface area of about 1.5 acres; withdrawal of water from said irrigation pond in the maximum quantity of 50 acre-feet per year at a maximum rate of 400 gallons per minute, for a maximum cumulative total quantity of 100 acre-feet per year at a maximum cumulative instantaneous rate of 1270 gallons per minute, all during the period of April 1 through October 31 of each year, for irrigation of a nine-hole golf course located on land generally described as part of the SE ¼ of the SE ¼ of Section 21, part of the SW ¼ of the SW ¼ of Section 22, and part of the N ½ of the NE ¼ of the NE ¼ of Section 28, all in T79N, R27W, Dallas County, Iowa.

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 Chapter 50, 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--50.8(3), 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 Ave. Suite 200, Des Moines, Iowa 50321-1371 within thirty days of the date of the certification of the mailing of the permit.

FOR THE DIRECTOR:

By: _____ Date Executed: _____
cc: Permit File

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. This Permit is issued pursuant to Iowa Code chapter 455B.265(1) to authorize the withdrawal and use of water by the permittee, subject to the terms contained herein and to the laws and rules of the Department that regulate the withdrawal and use of water. Issuance of this permit does not relieve the permittee of the responsibility to comply with applicable local, state and federal laws, ordinances, regulations or other legal requirements.
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. Prior to April 1 each year, the Permittee shall be responsible for accurately measuring the distance to water (static water level) in the permitted well(s). These records shall be submitted annually to the Department.
9. Permittee shall not apply fertilizers, pesticides or other materials through any irrigation system unless the system is equipped with an automatic check valve or comparable device, to prevent such materials from entering the source of irrigation water. Permittee shall conduct frequent inspections for the proper functioning of the check valve to prevent back siphoning of contaminants into the water source as required in Chapter 50.9(1)"e" of Part 567, Iowa Administrative Code.
10. Irrigation shall not be allowed on those areas with slopes greater than six (6) percent until a soil-conservation plan is prepared with the assistance of the Natural Resource Conservation Service. The plan shall be accompanied by the applicant's written statement, explaining how the plan and the operation of the irrigation system are compatible. After its submission, irrigation under this permit is contingent upon Permittee's compliance with the soil conservation plan.
11. Permittee shall cease withdrawals of water from all authorized intakes in the North Raccoon River when stream flow is below the protected flow designation of 190 cubic feet per second at the official gage of the Raccoon River at Van Meter, Iowa. [USGS 05484500]
12. Permittee shall cease consumptive withdrawals of water from all authorized intakes in the Dallas County Quarry hydrologically connected to the North Raccoon River when stream flow is below the protected flow designation of 190 cubic feet per second at the official gage of the Raccoon River at Van Meter, Iowa. [USGS 05484500]

13. Permittee shall cease withdrawals of water from all authorized unconfined wells located within 660 feet of the North Raccoon River when stream flow is below the protected flow designation of 190 cubic feet per second at the official gage of the Raccoon River at Van Meter, Iowa. [USGS 05484500]
14. Permittee shall limit intake to provide for the downstream discharge of that portion of the natural flow in the North Raccoon River intake that is required to prevent material damage to downstream users.
15. Permittee shall provide screening on water intakes as required in Section 481A.14, Code of Iowa, to protect fish and other aquatic life.
16. Permittee must apply to renew this water use permit using form 542-1470 prior to the expiration date of the current permit version.
17. 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.
18. This permit supersedes Water Use Permit No. 2639-M7.

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.