STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

December 1, 2009

Attn: Mr. Gordon Sevig
Corridor Ridge Subdivision
P.O. Box 123, Walford IA 52351

Subject: Corridor Ridge Subdivision Water Supply Sanitary Survey
Public Water Supply ID # 5280303

Dear Mr. Sevig:

Enclosed is the report of the recent survey of the above system conducted by Jon Ryk of my staff.

We believe you will find the report self-explanatory and strongly encourage you to take action on the requirements and recommendations listed near the end.

Subrule 567 IAC 43.1(7) Sanitary Surveys reads ... *Systems must respond in writing to significant deficiencies outlined in the sanitary survey report within the time period specified in the report, indicating how and on what schedule the system will address significant deficiencies noted in the survey. At a maximum, the written response must be received within 45 days of receiving the survey report. All systems must take the steps necessary to address significant deficiencies identified in the sanitary survey report that are within the control of the system and its governing body.*

In the report, your facility received notice of significant deficiencies. You must respond by the suspense date (indicated at the bottom of the page), as to how the significant deficiencies are being addressed. All other items noted in the report are either minor deficiencies (minor deficiencies require a response in the form of a Plan of Action {POA}) or recommendations. Please note the POA is in addition to any significant deficiency responses and must also be received by the suspense date.

The POA for all minor deficiencies must detail how the minor deficiency will be addressed and on what time frame. When we receive the significant deficiency response, as well as the POA, we will evaluate them and address the approach to the issues at that time.

If you have any questions about the inspection or report, please contact Mr. Ryk at 319-653-2135 or e-mail jon.ryk@dnr.iowa.gov

The cooperation and assistance of Shane Schrader and yourself in completing this survey was appreciated.

Sincerely,

Paul Brandt
Environmental Specialist Senior, Field Office # FO6

xc: IDNR Water Supply Operations Section
Shane Schrader, 7849 Linn-Benton Road, P.O. Box 270, Walford IA 52351

Suspense: January 15, 2009

IOWA DEPARTMENT OF NATURAL RESOURCES
PUBLIC WATER SUPPLY SANITARY SURVEY

PWSID #: 5280303

PUBLIC WATER SUPPLY INFORMATION			
SYSTEM	NAME: CORRIDOR RIDGE SUBDIVISION	PWS CLASSIFICATION: COMMUNITY	
	ADDRESS: CORRIDOR RIDGE SUBDIVISION, ATTN GORDON SEVIG, PO BOX 123, WALFORD, IA 52351		PHONE: 319-721-7221
	RESPONSIBLE AUTHORITY/OWNER: CORRIDOR RIDGE SUBDIVISION		
	ADDRESS: ATTN GORDON SEVIG, PO BOX 123, WALFORD IA 52351		PHONE: 319-721-7221
	TREATMENT GRADE: GA	DISTRIBUTION GRADE: GA	WATER USE PERMIT #: N/A

SOURCE/ ENTRY POINT	SDWIS NAME: S/EP FROM WELL #1	DESCRIPTION/PHYSICAL LOCATION: NEAR WELL HOUSE

RESPONSIBLE OPERATOR(S)	NAME: SHANE SCHRADER	GRADE: GA/WD1	CERTIFICATION #: 8152

SURVEY INFORMATION				
SURVEY	DATE THIS SURVEY: 11/19/2009	DATE LAST SURVEY: 05/03/2007		PURPOSE: SANITARY SURVEY
PERSONS INTERVIEWED	NAME: GORDON SEVIG SHANE SCHRADER		TITLE: OWNER OPERATOR	
CONSUMPTION	PERIOD REVIEWED: 05/04/2007 TO 11/19/2009	AVERAGE GPD (MGD): .00325	MAXIMUM GPD (MGD): UNKNOWN	PE @ 100 GPCD: 32.5
POPULATION SERVED	TOTAL NUMBER OF SERVICE CONNECTIONS: 42 (Will be up to 45 when complete)		POPULATION OUTSIDE CORPORATE LIMITS: 0	
	CENSUS POPULATION: 125		TOTAL POPULATION SERVED*: 125	
	MILES OF PIPE: N/A			

*equals census pop. + population outside corp. limits (2.5 X # of service connections or actual pop.)

ASSESSMENTS	ORGANIC CHEMICAL PHYSICAL VULNERABILITY: NO
	SOURCE CLASSIFICATION: GROUND WATER

AUTHENTICATION		
INSPECTOR	NAME/TITLE: JON RYK, ENVIRONMENTAL SPECIALIST	DATE:
REVIEWER	NAME/TITLE:	DATE:

FACILITY DESCRIPTION: The Corridor Ridge Subdivision derives its water from one well. Well #1 is 502 feet deep. It is cased to 382 feet and grouted to 360 feet. The well head is located outside but feeds into a well house located in the immediate area of the well. A 3,000 gallon hydropneumatic storage tank is located in the well house along with other well appurtenances.

Sources:

1. Well #1 (2003). This well is located along the south west portion of the subdivision in the immediate area of the well house.

Is there a change in Source/Entry Point Designation(s)? **Yes** ☐ **No** ☒

Any changes to the Monthly Operating Reports (MOR) reporting requirements? **Yes** ☐ **No** ☒

The facility is not required to submit MORs to the department per their permit.

Treatment: The facility does not utilize treatment at this time.

Storage: The facility has one 3,000-gallon hydropneumatic storage tank located inside the well house which is located in the immediate area of Well #1.

SUMMARY OF SIGNIFICANT DEFICIENCIES

- The opening from the drain line from the hydropneumatic storage tank was observed to be resting on the floor drain in the well house. The Department requires an air gap of a minimum of 6-inches or two times the diameter of the pipe (whichever is greater).
- The system has one home that has a geothermal system (residence at 2798 NE Jefferson Court) and the owner could not verify that the geothermal system for this residence was not connected to the potable water system. The system must provide documentation to this office that the geothermal system for that residence is not connected to the potable system. If it is found that the geothermal system is connected to the potable system, then this system must immediately cease allowing cooling water from being returned to the potable system. This system must submit a written report to this department within 45 days of receipt of this report that includes information either verifying that the system is not connected to the potable system or indicating when the cross connection will be eliminated. 567 IAC 43.1(6).
- The system has a Bacterial Sampling Plan but the plan did not have all of the required elements. Major elements of the plan shall include, but are not limited to, a map of the distribution system, notation or a list of routine sample location(s) for each sample period, resample locations for each routine sample, and a log of samples taken. 567 IAC 41.2(1)"c" & (2)2. The water supply needs to include a map of the distribution system and the repeat sample locations with their Bacterial Sampling Plan. The owner was furnished with a template for the Bacterial Sampling Plan on the date of the inspection.

SUMMARY OF MINOR DEFICIENCIES

- The operator is not a full time operator for the system and has two other facilities in Walford which he is responsible for. The water supply has not submitted the completed Affidavit Operator Form to the department. Subparagraph 567 IAC 81.2(4) requires that an Affidavit form provided by the director and shall be completed and include the name and signature of the certified operator, the operator's certification number, class and grade, and the date of last renewal of the operator's certificate. Four duly notarized copies of the affidavit must be returned to and approved by the director. Submit the attached Operator by Affidavit forms within 45 days of receipt of this report.

SUMMARY OF RECOMMENDATIONS

- On the date of the inspection two loose bolts were identified on the well cap. No evidence of a compromised seal was identified. However, the bolts will need to be tightened.
- No Source Water Assessment has been conducted for this water supply. Contact the Iowa Geologic Survey at 319-335-1449 to obtain a source water assessment for any new wells not yet assessed.
- Source Water Protection Plans are encouraged for all wells and may result in fewer monitoring requirements in the future. Contact Rebecca Ohrtman, Source Water Protection Coordinator, at 515/281-0932 or rebecca.ohrtman@dnr.iowa.gov for more information on source water protection.
- The system does not have an interconnection with a neighboring system or a contingency plan for water outages. It is recommended that a contingency plan for the provision of potable water during emergencies be developed and updated on an annual basis.
- No protection such as bump posts was identified around the well. Recommended Standards for Water Works 3.2.5.10 recommends that the upper terminal of the well be protected from physical damage.
- It is highly recommended that this system conduct an assessment to determine what percent of water produced by this system is reaching consumers. If it is determined that there is a 10% or greater loss of water, a leak detection program should be immediately instituted. The elimination of leaks not only reduces the cost of producing water, but also eliminates pathways for contaminants to enter the distribution system.

Suspense: January 15, 2009