

Water Suitability Analysis



Submitted By: **EW50627802**
HARDIN CO BOARD OF SUPERVISORS
1215 Edgington Ave
Eldora, IA 50627

Submitted For:
BOOK
19521 CO HWY D15
IOWA FALLS, IA 50126

Laboratory Sample #
CO70555
6985-22

Date Received
23-May-2023

Date Reported
24-May-2023

Information Sheet #
DW0523-22

Date/Time Collected	Sample ID	Test Package			IA Lab ID Number	061
05/22/2023 01:00 PM	HOSE TAP FRONT	Drinking Water			EPA Lab ID Number	46
Test Name (Contaminant ID)	Method	Results	Low	Satisfactory	Cautionary	Critical
Total Coliform		<1.0 MPN/100mL	0	0.1 - 0.9	1 - 5.3	>5.3
E. Coli		<1.0 MPN/100mL	0	0.1 - 0.5	0.6 - 0.9	>=1.0
Nitrate	EPA 300.0	0.0706 mg/L	0	0 - 6.9	7 - 9.9	>9.9
Sulfate	EPA 300.0	37 mg/L	0	0 - 250	251 - 400	>400

[Bracketed results] specify values greater than or equal to the Limit Of Detection (LOD) but less than or equal to the Limit of Quantitation (LOQ) and are within a range of less-certain quantitation.

DISCLAIMER: Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

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Collection Location hose tap front	Collector and Phone sheridan jess 641/849-7372	Client Reference hardin 19521	Accession # 2285844
CO HWY D15 IOWA FALLS, IA	Collected 2023-05-22 13:00	Received 2023-05-30 08:53	Project
Report To			Sample Description well water
VAS (AG SOURCE) 1701 DETROIT ST PO BOX 247 ELLSWORTH, IA 50075			Sample Type Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT (mg/L)</u>	<u>QUANT LIMIT</u>	<u>MCL</u>	<u>ANALYSIS NOTE(S)</u>
Metals, EPA 200.8				2
Arsenic	<0.001	0.001	0.01	
Manganese	0.04	0.02	0.3	

SAMPLE AND ANALYSIS NOTES

- Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.
- The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. Metals, EPA 200.8	2023-05-31 16:35 SGB	3201	2023-06-01 14:10 MRC	

DESCRIPTION OF UNITS

mg/L = Milligrams per Liter

SITE(S) PERFORMING TESTING

3201 STATE HYGIENIC LABORATORY ANKENY, IOWA LABORATORIES COMPLEX, 2220 S ANKENY BLVD, ANKENY, IA 50023; Phone 515/725-1600; Fax 515/725-1642; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #397

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.



AgSource Laboratories

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What Your Well Water Report Means

Total Coliform

This is an indication of bacterial pollution. If your water tested 8.7 or more, then you should have your well inspected to determine the cause of the contamination. If your water was 2.0 to 5.3 the water should be tested again periodically to determine if the problem is getting worse. A result of satisfactory or 0.0 indicates no bacterial problem. **Note that any bacteria detected is cause for concern.**



0.0 2.0 5.3 8.7

E-Coli Coliform

This is an indication of bacterial pollution of a fecal origin. Any result of bacterial pollution that is unsatisfactory (1.0 or higher) indicates the well should be inspected and the cause of the contamination should be eliminated.



0.0 1.0

Nitrate

High levels of nitrate have been associated with methemoglobinemia (blue babies) in bottle fed infants. Levels in excess of 10 mg/liter of nitrate nitrogen are considered unsafe. High nitrates can be an indication of surface water contamination in a well.



0.0 10

Sulfate

Desirable levels are less than 250 ppm. Above 200 ppm indicates that there are increased amounts of lead dissolved from pipes. Laxative effects are expected when levels exceed 1000 ppm.



200 250 1000

If your water sample exceeds any of the safe upper limits you should take steps to correct the problem. After doing so, the water should be retested to insure that the problem has been solved.

If your water tested safe in all areas of analysis, you should nevertheless have it retested periodically (once per year or every two years) to detect any problems that may arise.