

Source Water Assessment for Waterloo (PWS# 790074) Alluvial & Silurian-Devonian Aquifer



Source Water Protection

The purpose of this Source Water Protection (SWP) "Phase I" assessment is to:

- Define your source water area and susceptibility;
- locate, inventory, and rank potential contaminant sources within your source water area;
- provide the results to the public for improved protection of your drinking water.

Introduction

This Source Water Protection (SWP) "Phase I" assessment is meant to provide information and be used as a tool to help protect the quality and quantity of your drinking water. Within it you will find an inventory of your wells, tables showing potential contamination sources within your source water area, and maps showing your system's source water information.

The source water area defined in this report is the region directly linked to your water supply, and where land use changes have the greatest influence on your drinking water quality. Your source water area was defined based on scientific information available to the Iowa Department of Natural Resources (IDNR – Source Water Protection Program).

This "Phase 1" source water assessment by no means protects your drinking water. To protect your drinking water your system should develop

and implement a Source Water Protection Plan. Protection measures are different for each system, but commonly include reserving areas for future wells, cleaning up contaminants, and converting portions of your source water area to native vegetation. Further information on how to protect your drinking water, including a [guidebook](#), [workbook](#) and [GIS resources](#), can be found at www.iowasourcewater.org.

This SWP assessment includes the following sections:

1. Defining Your Source Water Area
2. Susceptibility of Your Source Water Area
3. Contaminant Sources within Your Source Water Area
4. Ranking Contaminant Sources
5. How to Protect Your Drinking Water
6. Consumer Confidence Report

Section 1: Defining Your Source Water Area

Accurate well, aquifer, and pumping information is critical to providing the best estimate of your source water area. According to our records, Waterloo has five active public wells open in the sand and gravel of the Cedar River Alluvial aquifer and one active public well open in the limestone and dolomite of the Silurian-Devonian aquifer. The table below shows your well and aquifer information. If you believe the table is wrong, please contact the Iowa Source Water Protection Program at www.iowasourcewater.org or 515-725-8343.

| W# | Local Name | Depth (ft.) | Const. date | Status | Aquifer | SWL (ft.) | PWL (ft.) | Aquifer thickness (ft.) | Rate (gpm) |
|-----------------------|------------|-------------|-------------|--------|-------------------|-----------|-----------|-------------------------|------------|
| 8641 | #16 | 204 | 5/7/1957 | Active | Silurian-Devonian | 15 | 34 | 172 | 4220 |
| 43041 | #10 | 76 | 4/17/1937 | Active | Alluvial | 22 | 32 | 61 | 1966 |
| 43042 | #11 | 82 | 7/3/1939 | Active | Alluvial | 24 | 36 | 74 | 1933 |

| | | | | | | | | | |
|-----------------------|-----|------|------------|----------|---|-----|-----|-----|------|
| 43039 | #7 | 80 | 4/14/1930 | Active | Alluvial | 21 | 31 | 67 | 2233 |
| 43053 | #8 | 82 | 1/1/1930 | Not Used | Alluvial | 0 | 0 | 0 | 0 |
| 43043 | #12 | 89 | 7/17/1941 | Active | Alluvial | 26 | 36 | 74 | 1850 |
| 43040 | #9 | 84 | 12/19/1931 | Standby | Alluvial | 16 | 27 | 0 | 1800 |
| 43044 | #13 | 82 | 6/30/1948 | Active | Alluvial | 26 | 35 | 64 | 1833 |
| 43049 | #22 | 151 | 1/1/1979 | Standby | Devonian | 29 | 34 | 107 | 2730 |
| 43045 | #14 | 190 | 1/21/1954 | Active | Devonian | 20 | 36 | 153 | 2670 |
| 43052 | #6 | 1408 | 1/1/1928 | Not Used | Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 43051 | #5 | 1409 | 1/1/1922 | Not Used | Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 30060 | #4 | 1378 | 1/1/1914 | Not Used | Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 312 | #2 | 1377 | 1/1/1907 | Not Used | Ordovician (abv St. Peter), Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 43050 | #3 | 1365 | 1/1/1911 | Not Used | Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 13835 | #18 | 205 | 3/1/1962 | Active | Devonian | 86 | 89 | 85 | 600 |
| 106 | #1 | 1373 | 1/1/1905 | Not Used | Ordovician (abv St. Peter), Cambrian-Ordovician | 0 | 0 | 0 | 0 |
| 12031 | #17 | 215 | 1/1/1960 | Active | Devonian | 125 | 136 | 107 | 2435 |
| 7482 | #15 | 206 | 10/24/1955 | Active | Devonian | 118 | 126 | 105 | 2131 |
| 43048 | #21 | 225 | 1/1/1975 | Active | Devonian | 26 | 35 | 113 | 3300 |
| 43046 | #19 | 139 | 12/28/1962 | Active | Devonian | 14 | 21 | 116 | 3260 |
| 43047 | #20 | 145 | 1/1/1971 | Active | Devonian | 12 | 22 | 61 | 1930 |

Source Water Glossary

Aquifer: An underground water-bearing layer that provides a usable quantity of water.

Source Water Area: An estimation of the area contributing water to your public wells.

Capture zone: A computer modeled source water area, typically using 2-5-and 10 year time of travel periods.

Time of travel: A duration of time specified to determine the distance and area that water will travel.

Susceptibility: A measure of an aquifer's potential to become contaminated. Does not imply either good or poor water quality.

Confining layer: A layer of material which slows the movement of water.

Alluvial Aquifer

Sufficient information was available concerning your wells, aquifer and pumping conditions to produce a computer modeled estimate of your source water area. For your water supply, the source area was divided and prioritized to show where we estimate groundwater to flow during "time of travel" periods; typically 2, 5, and 10-years. These source areas for your facility were estimated using an analytical element model for the purpose of delineating source water protection areas. The model requires certain input data for your aquifer, wells, and pumping rate, described below:

- Gradient: 0.001 ft./ft. •Flow Direction: unknown •Porosity: 0.25
- Transmissivity: 38,800 ft.²/day •Aquifer Thickness: 66 ft. •Average Gallons per Day: 4,766,630.

In addition to the delineated groundwater area, surface runoff areas from streams that contribute to the groundwater capture zone were also delineated. Spills and other uncontrolled runoff have the potential to migrate through gullies, tributaries, or drainage tiles and infiltrate into the aquifer in the floodplain.

Silurian-Devonian Aquifer

Your aquifer consists of highly fractured bedrock that allows contaminants to migrate over large distances very quickly. This delineation consists of a 1-mile radius circle divided into two categories based on the estimation of

confining layers over that section of the aquifer: high susceptibility and medium susceptibility areas. Each area is defined in the map, with high susceptibility having less protection, and more direct influence from the surface than medium susceptibility.

Section 2: Susceptibility of Your Source Water Area

Research by the [Iowa Geological Survey](#) has determined that thickness of confining layers such as till, clay, and shale between the aquifer and the land surface is inversely related to aquifer susceptibility. Aquifers overlain by thicker confining beds are less susceptible to contamination than aquifers overlain by thin confining beds. The table below summarizes susceptibility by confining layer thickness.

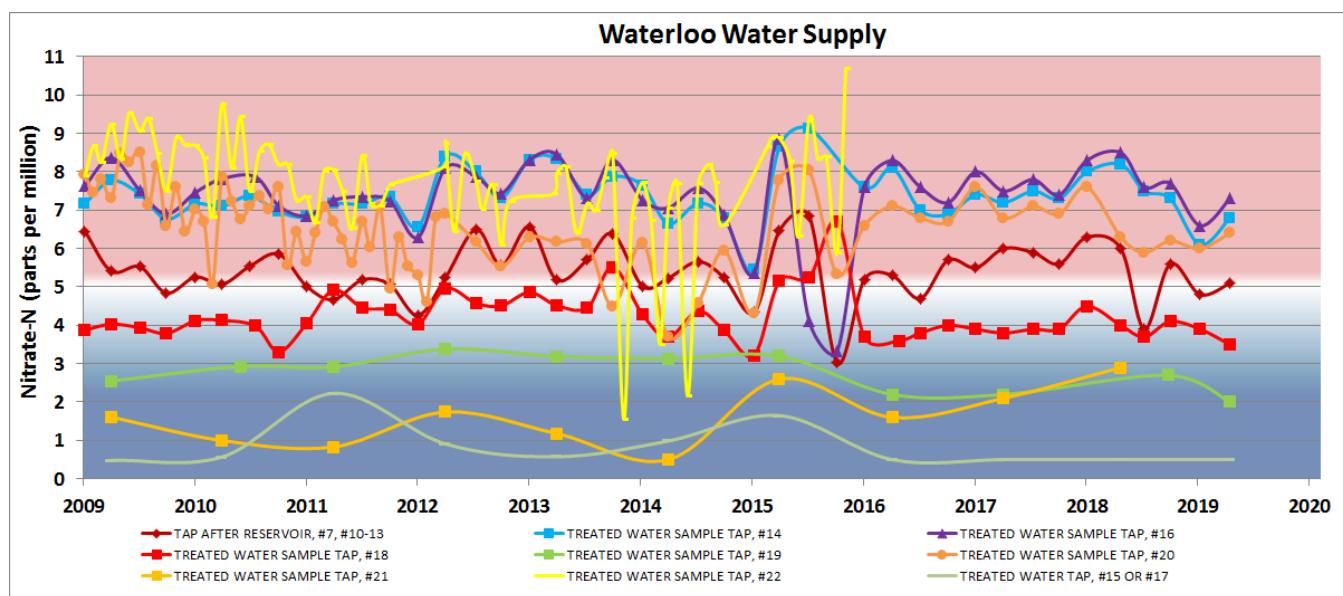
| Confining layer thickness | Susceptibility designation |
|---------------------------|----------------------------|
| <25 feet | Highly susceptible |
| 25 to 50 feet | Susceptible |
| 50 to 100 feet | Slightly susceptible |
| >100 feet | Low susceptibility |

Based on our data, your wells in the Alluvial aquifer have a cumulative confining layer thickness of less than 25 feet. Your aquifer was therefore determined to be highly susceptible to contamination from the land surface.

Your wells in the Silurian-Devonian aquifer have a cumulative confining layer thickness of less than 25 feet. This aquifer was therefore determined to be highly susceptible to surface contamination.

Another method for determining the susceptibility of your aquifer is by using nitrate concentrations in well water to evaluate the potential for contamination from the land surface. Wells that are less protected from contamination near the land surface typically have higher nitrate concentrations than wells that are more protected from contamination near the land surface. Based on our records, finished water at Waterloo has a ten-year average nitrate-N concentration of 6.12 parts per million (ppm), based on 341 total samples.

Nitrate concentrations in your public water supply are generally high. Elevated nitrate concentrations can disrupt the electron transport system and cause methemoglobinemia, or blue baby syndrome, in infants.



Section 3: Contaminant Sources within Your Source Water Area

To identify potential contaminant sources we searched electronic databases for facilities and land uses that fell inside your source water area. The databases used for the inventory are described in step 3 of the Iowa Source Water Protection [Guidebook](#). The contaminant source inventory includes facilities and land uses that have been known to contaminate groundwater.

Table 1 lists the potential contaminant sources we found in your source water area. The map numbers correspond to the contaminant source list in Table 1. The potential contaminant sources are derived from databases that have varying degrees of locational accuracy, and therefore could be located in the wrong area or omitted from the map entirely. For this reason, locational accuracy is noted at the end of the table. You or other residents may be aware of additional contaminant sources that should be included, feel free to modify this report to reflect your knowledge.

For many aquifers, particularly those overlain by thick confining layers, the greatest threat of contamination to the aquifer is through existing wells that penetrate the confining layers. For this reason, Table 2 lists all known wells, owners, and locations identified in your source water area. A numbered symbol shown on the map at the end of this report identifies well locations. Well locations are derived from databases that have varying degrees of accuracy, and therefore could be mapped in the wrong area or omitted from the map entirely. For this reason, locational accuracy is noted at the end of Table 2.

In addition to the specific “point” sources listed in Table 1, nonpoint sources of contamination also exist in your source water area. In Iowa, a potentially significant nonpoint source of contamination is row crop agriculture. Land use percentages and acreages are presented in Table 3.

Section 4: Ranking Contaminant Sources

We have attempted to prioritize the relative risk to your source water based on a three component ranking system; 1) the location of the potential contaminant source in the source water area, 2) the susceptibility ranking of the aquifer to contamination, and 3) the type of contaminant source. Points are assigned for each category and a cumulative score calculated for each potential contaminant source using the scores for each of the three components. Higher numbers always correspond to higher risk in this report.

1) Location of potential contaminant sources

Your potential contaminant sources are ranked from 1-3 based on the capture zone they are located in, with greater weight given based on proximity to the well. Fixed radius capture zones also received greater risk as they represent unknown or poorly known hydrogeologic conditions. The table below shows the risk score assigned to each source water area.

| Source Water Area | Risk score |
|---|------------|
| 2-year time of travel, hydrologic boundary, fixed radius, 1-mile, modified karst - high | 3 |
| 5-year time of travel, modified karst – medium | 2 |
| 10-year time of travel, aquifer retrieval area, surface runoff area | 1 |

2) Aquifer susceptibility to contamination

Susceptibility rankings were given scores to give more priority to aquifers with less confining layer thickness. Aquifer susceptibilities were given ranks of 1-4, from low susceptibility to highly susceptible. If your well depth or confining layer thickness is unknown, the source water area was automatically designated as “highly susceptible” and ranked 4.

3) Land-use type

The land-use type combines the potential for different facility classes or land uses to release contaminants with an estimate of the toxicity of the contaminants that may be released. Land-use risks are assigned values from 1 to 5 (least to greatest risk).

The final “Risk Score” for the source water area is the result of summing the three components of relative risk. For a list of land-use types and additional information regarding the ranking classification, please refer to the Iowa Source Water Protection [Guidebook](#).

The goal for ranking potential contaminants is to provide your system with a list to help prioritize potential risks. These risks can only be addressed through local initiatives and strategies started by your community. To begin a SWP plan, it is up to your local community to decide which potential contaminant sources carry the most risk, and to proactively engage problems you find that may affect your drinking water. The risk rankings provided in this report are only a guide; the final decision on the priority of potential contaminant sources rests with your local source water protection team.

Section 5: How to Protect Your Drinking Water

This Source Water Phase I assessment only provides information on your source water area and contaminants. Your community is responsible for taking the necessary action to ensure you have clean drinking water for future generations. To do this the Iowa Source Water Program strongly encourages you to start a source water protection plan. A SWP plan is different for each community, but the steps needed to complete one are the same for every system. Most steps have already been outlined and partially completed in the SWP “Phase 1” assessment:

Steps for completing a Source Water Protection Plan

- Step 1:** Organize a source water team
- Step 2:** Identify your source water areas
- Step 3:** Inventory well and contaminant sources
- Step 4:** Assess and rank contaminant sources
- Step 5:** Develop an action plan
- Step 6:** Construct or update your emergency response plan
- Step 7:** Submit and Implement your SWP Plan

If your community is interested in protecting your drinking water, there are plenty of free resources available to help guide you through this process. www.iowasourcewater.org has many online resources available, including a detailed [guidebook](#) and [workbook](#) created for Iowa community water supplies. Please contact Jessica Montana (712-243-1934) of the Iowa Source Water Program for further information.

Section 6: Consumer Confidence Report

As the agency responsible for conducting drinking water programs in the state of Iowa, IDNR must provide each public water supply with language to be included in their Consumer Confidence Report regarding source water protection. The following language, at a minimum, must be included in each Consumer Confidence Report you produce from now on:

“The Waterloo water supply obtains a portion of its water from the sand and gravel of the Cedar River Alluvial aquifer and a portion of its water from the limestone and dolomite of the Silurian-Devonian aquifer. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Silurian-Devonian aquifer was determined to be highly susceptible to contamination

because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. Waterloo's Alluvial wells will be highly susceptible to contaminants near the land surface such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. The Silurian-Devonian well will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 319-232-6280."

You may modify this language or include additional information if you so desire, but you must identify the source of your system's drinking water and identify known sources of potential contamination.

Table 1a. Inventory and ranking of potential contaminant sources in the Alluvial aquifer.

Waterloo Public Water Supply (790074)
Phase I - Contaminant Source Inventory and Assessment

Aquifer: Alluvial Highly Susceptible (risk factor = 4)

| Map No. | Site Name | Site Type | Site Link ¹ | Program ID | Site Address | Loc'n Acc ² | Land Use Risk ³ | Risk Score ⁴ |
|--|---|---------------------------|---------------------------|--------------------------|--|------------------------|----------------------------|-------------------------|
| Capture zone: 2-year time of travel (risk factor = 3) | | | | | | | | |
| 54 | Handling And Storage Spill | Hazardous Materials Spill | 311610952 | 121805-JPS-1815 | 1105 Cedar Bend St, Waterloo, IA 50703 | good | 1 | 8 |
| 55 | Kwik Star #724 | Underground storage tank | 310588908 | 198603364 020106-SJM- | 1105 Cedar Bend Dr, Waterloo, IA 50703 | poor | 5 | 12 |
| 56 | Kwik Star Decorah | Hazardous Materials Spill | 311649035 | 1708 | 1105 Cedar Bend St, Waterloo, IA 50703 | poor | 1 | 8 |
| 58 | Waterloo Water Works | Underground storage tank | 310514495 | 198600675 | 747 Cedar Bend, Waterloo, IA 50703 | poor | 5 | 12 |
| 62 | Handling And Storage Spill | Hazardous Materials Spill | 311636147 | 030901-DLP-1717 | 411 Normandy St, Waterloo, IA 50703 | good | 1 | 8 |
| 63 | Black Hawk County Shop | Underground storage tank | 311255302 | 198602160 | 1329 Longfellow Ave, Waterloo, IA 50703 | good | 5 | 12 |
| 64 | Handling And Storage Spill | Hazardous Materials Spill | 311581776 | 112102-DLP-1440 | 1203 Longfellow Ave, Waterloo, IA 50703 | good | 1 | 8 |
| 65 | D & J Oil Co | Above ground fuel storage | 310432163 | AST14068 | 1145 W Donald St, Waterloo, IA 50703 | poor | 5 | 12 |
| 66 | D & J Oil Co | Underground storage tank | 310432163 | AST14068 | 1145 W Donald St, Waterloo, IA 50703 | poor | 5 | 12 |
| 68 | Waterloo Water Works | Underground storage tank | 310624054 | 198600674 | 219 St John Street, Waterloo, IA 50703 | poor | 5 | 12 |
| 69 | Pepsi Beverages Company | Tier II Chemical Storage | 311535954 | FAIDSIT2A000020 | 1424 Burton Avenue, Waterloo, IA 50703 | poor | 3 | 10 |
| 70 | Not Known | Underground storage tank | 310533198 | 198603188 | 510 Thorson, Waterloo, IA 50704 | poor | 5 | 12 |
| 71 | Newkirk Sales Co | Underground storage tank | 310484812 | 198602509 | 306 Thorson Ave, Waterloo, IA 50704 | poor | 5 | 12 |
| 72 | Not Known | Underground storage tank | 310602618 | 198608267 | T89n, R13w, Sec. 14, Nw, Se, Nw, Waterloo, | poor | 5 | 12 |
| 73 | International Paper - Waterloo | Air Permit - Minor | 311113121 | 07-01-017 021505-TEM- | 800 W Parker Street, Waterloo, IA 50703 | good | 3 | 10 |
| 74 | Handling And Storage Spill | Hazardous Materials Spill | 311661099 | 2103 | 220 Brees St, Waterloo, IA 50703 | good | 1 | 8 |
| 75 | Roberts & Dybdahl Inc | Underground storage tank | 310466938 | 198603463 | 1630 Grandview, Waterloo, IA 50704 | poor | 5 | 12 |
| 76 | Former Crouse Cartage Co | Leaking USTs | 310513534 | 198916519 | 1524 Grandview, Waterloo, IA 50701 | good | 5 | 12 |
| 77 | Former Crouse Cartage Co | Underground storage tank | 310513534 | 198916519 | 1524 Grandview, Waterloo, IA 50701 | good | 5 | 12 |
| 80 | A-line Iron And Metals, Inc. | Solid waste facility | 311308206 | FAIDSIT2A000022 | 1500 David St., Waterloo, IA 50703 | good | 5 | 12 |
| 81 | A-line Iron And Metals, Inc. | Solid waste facility | 311308206 | FAIDSIT2A000022 | 1500 David St., Waterloo, IA 50703 | good | 5 | 12 |
| 82 | A-line Iron And Metals, Inc. | Tier II Chemical Storage | 311308206 | FAIDSIT2A000022 | 1500 David St., Waterloo, IA 50703 | good | 3 | 10 |
| 83 | A-line Iron And Metals, Inc. | Solid waste facility | 311308206 | FAIDSIT2A000022 | 1500 David St., Waterloo, IA 50703 | good | 5 | 12 |
| 87 | Fairview Cemetery | Cemeteries | | | T100n, R39w, Sec. 29, Sw, Sw, Bedford, IA | good | 2 | 9 |
| 88 | Industrial Fabrication & Machining, Inc | Air Permit - Minor | 311023175 | 07-01-120 | 520 W. Parker St., Waterloo, IA 50703 | good | 3 | 10 |
| 89 | Industrial Fab & Machine | Contaminated sites | 312613197 | 2372 102909-AHB- | T89n, R13w, Sec. 14, Se, Nw, Sw, Waterloo, | good | 5 | 12 |
| 90 | Road Surface | Hazardous Materials Spill | 311624983 | 1151 | T89n, R13w, Sec. 23, Nw, Ne, Ne, Waterloo, | poor | 1 | 8 |
| 91 | John F Klemke | Underground storage tank | 310448816 | 198610138 | 1250 David St, Waterloo, IA 50701 | poor | 5 | 12 |
| 95 | Fereday Heating | Underground storage tank | 310483968 | 198607150 | Tom Fereday, Waterloo, IA 50703 | good | 5 | 12 |
| 96 | Fereday Heating | Leaking USTs | 310483968 | 198607150 | Tom Fereday, Waterloo, IA 50703 | good | 5 | 12 |
| Capture zone: 5-year time of travel (risk factor = 2) | | | | | | | | |
| 20 | Transportation Spill | Hazardous Materials Spill | 311643451 | 040304-ALS-0620 | Washington St, Waterloo, IA 507HH | poor | 1 | 7 |

| | | | | | | | | |
|-----|---|--------------------------------------|---------------------------|---------------------------------|--|------|---|-----------|
| 26 | Advanced Heat Treat Corp - Burton/midport Ave | Wastewater outfall | 311070845 | 790123 | T89n, R13w, Sec. 9, Se, Ne, Se, Waterloo, | good | 5 | 11 |
| 27 | Cedar Valley Corporation | Tier II Chemical Storage | 310477499 | FAIDSIT2A000034 | 2637 Wagner Road, Waterloo, IA 50704 | poor | 3 | 9 |
| 28 | Cedar Valley Corporation | Underground storage tank | 310477499 | FAIDSIT2A000034 | 2637 Wagner Road, Waterloo, IA 50704 | poor | 5 | 11 |
| 29 | Cedar Valley Corp.(waterloo) | Above ground fuel storage | 311991772 | AST13513 100306-AHB- 0905 | 2637 Wagner Rd, Waterloo, IA 50703 Broadway St & Wagner Rd, Waterloo, IA 5070 | poor | 5 | 11 |
| 30 | Canadian National/illinois Central (cn/ic) | Hazardous Materials Spill | 311682847 | 07-01-148 | 25 Main St, Waterloo, IA 50703 | poor | 1 | 7 |
| 31 | Midwest Wood Products - Waterloo | Air Permit - Minor | 311176611 | 07-01-165 | T89n, R13w, Sec. 10, Nw, Sw, Sw, Waterloo, | good | 3 | 9 |
| 32 | Tournier Manaufacturing, Inc | Air Permit - PBR Spray Booth | 312533936 | 120411-BDJ-1418 | 1750 Broadway Street, Waterloo, IA 50703 | good | 1 | 7 |
| 38 | Railroad Line Segment | Hazardous Materials Spill | 311961918 | 062201-KAL-1605 | 1457 W Airline Highway, Waterloo, IA 50703 | good | 5 | 11 |
| 40 | Thermogas, Waterloo | Underground storage tank | 311381778 | FAIDSIT2A000004 | 1457 W Airline Highway, Waterloo, IA 50703 | good | 3 | 9 |
| 41 | Thermogas, Waterloo | Tier II Chemical Storage | 311381778 | FAIDSIT2A000004 | 1457 W Airline Highway, Waterloo, IA 50703 | good | 1 | 7 |
| 42 | Thermogas, Waterloo | Contaminated sites | 311381778 | FAIDSIT2A000004 | T89n, R13w, Sec. 10, Ne, Nw, Nw, Waterloo, | good | 5 | 11 |
| 43 | Hydrite Chemical Company | Air Permit - Minor | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 3 | 9 |
| 44 | Hydrite Chemical Company | Tier II Chemical Storage | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 3 | 9 |
| 45 | Hydrite Chemical Company | Hazardous Materials Spill | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 1 | 7 |
| 46 | Hydrite Chemical Company | Hazardous Materials Spill | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 1 | 7 |
| 47 | Hydrite Chemical Co. | Contaminated sites | 312613179 | 2381 | T89n, R13w, Sec. 10, Nw, Se, Ne, Waterloo, | good | 5 | 11 |
| 48 | Transformer Spill | Hazardous Materials Spill | 311594719 | 041602-KAL-1341 | 1554 Oakwood Dr, Waterloo, IA 50703 | good | 1 | 7 |
| 49 | Roskamp Mfg Inc | Underground storage tank | 310602096 | 198603417 | 2975 Airline Circle, Waterloo, IA 50703 | poor | 5 | 11 |
| 50 | East Central Iowa Co-op | Underground storage tank | 311189498 | 07-01-137 | 1750 Broadway St, Waterloo, IA 50703 | good | 5 | 11 |
| 51 | East Central Iowa Co-op | Air Permit - Group 1 Grain Elevators | 311189498 | 07-01-137 | 1750 Broadway St, Waterloo, IA 50703 | good | 3 | 9 |
| 52 | Standard Distributing Co | Underground storage tank | 310601791 | 198608241 | 2991 Airline Circle, Waterloo, IA 50701 | poor | 5 | 11 |
| 53 | Roskamp Champion | Air Permit - Minor | 311042796 | 07-01-083 | 2975 Airline Circle, Waterloo, IA 50703 | good | 3 | 9 |
| 57 | Enviro Saf, Inc | Solid waste facility | 310652429 | 07-SDP-09-89 | 1103 Peters Drive, Waterloo, IA 50703 | good | 5 | 11 |
| 79 | Allen Memorial Hospital | Wastewater outfall | 311259926 | 790118 | T89n, R13w, Sec. 14, Ne, Nw, Sw, Waterloo, | good | 5 | 11 |
| 84 | B Schultz Co | Underground storage tank | 310450432 | 198604345 | 1500 David Street, Waterloo, IA 50704 | good | 5 | 11 |
| 85 | B Schultz Co | Leaking USTs | 310450432 | 198604345 | 1500 David Street, Waterloo, IA 50704 | good | 5 | 11 |
| 86 | A-line Iron And Metal, Inc | Air Permit - Minor | 312528468 | 07-01-166 | T89n, R13w, Sec. 14, Ne, Sw, Ne, Waterloo, | good | 3 | 9 |
| 92 | Allen Meml Hospital | Airports, landing fields | | | T89n, R13w, Sec. 14, Ne, Ne, Ne, Waterloo, | good | 4 | 10 |
| 97 | Fereday Heating Company | Solid waste facility | 310200323 | 07-ADP-03-02 | 1010 Broadway St, Waterloo, IA 50703 | poor | 5 | 11 |
| 98 | Duffy's Sunoco | Underground storage tank | 310483531 | 198811135 | 435 W Parker, Waterloo, IA 50703 | good | 5 | 11 |
| 99 | Duffy's Sunoco | Leaking USTs | 310483531 | 198811135 | 435 W Parker, Waterloo, IA 50703 | good | 5 | 11 |
| 100 | Zayn, Inc (broadway Liquor) | Underground storage tank | 310609035 | 198608633 | 821 Broadway, Waterloo, IA 50703 | good | 5 | 11 |
| 101 | Zayn, Inc (broadway Liquor) | Leaking USTs | 310609035 | 198608633 | 821 Broadway, Waterloo, IA 50703 | good | 5 | 11 |
| 102 | Allen Memorial Hospital | Wastewater treatment facility | 311259926 | 790118 | 1825 Logan Avenue, Waterloo, IA 50703 | good | 5 | 11 |
| 103 | Allen Memorial Hospital | Air Permit - Minor | 311259926 | 790118 | 1825 Logan Avenue, Waterloo, IA 50703 | good | 3 | 9 |
| 104 | Allen Memorial Hospital | Tier II Chemical Storage | 311259926 | 790118 | 1825 Logan Avenue, Waterloo, IA 50703 | good | 3 | 9 |
| 105 | 723 Broadway Street | Contaminated sites | 311734362 | 1340 | T89n, R13w, Sec. 23, Ne, Nw, Nw, Waterloo, | good | 5 | 11 |
| 106 | Allen Memorial Hospital | Hospitals | | | 1825 Logan Avenue, Waterloo, IA 51241 | good | 4 | 10 |
| 107 | Kwik Star #723 | Hazardous Materials Spill | 310577201 | 062713-ALS-2044 | 707 Broadway St, Waterloo, IA 50703 | good | 1 | 7 |
| 108 | Kwik Star #723 | Underground storage tank | 310577201 | 062713-ALS-2044 | 707 Broadway St, Waterloo, IA 50703 | good | 5 | 11 |
| 109 | Kwik Star #723 | Leaking USTs | 310577201 | 062713-ALS-2044 | 707 Broadway St, Waterloo, IA 50703 | good | 5 | 11 |
| 111 | Allen Memorial Hospital | Underground storage tank | 311255035 | 198601560 | 1825 Logan Ave, Waterloo, IA 50703 | poor | 5 | 11 |
| 112 | Waterloo Schools - George Washington Carver Academy | Wastewater treatment facility | 311089519 | 790125 | 1515 Logan Avenue, Waterloo, IA 50703 | good | 5 | 11 |

| | | | | | | | | |
|-----|-----------------------|---------------------------|---------------------------|-----------|-------------------------------------|------|---|----|
| 113 | New Start Mart II | Underground storage tank | 310614796 | 198602852 | 1415 Logan Ave, Waterloo, IA 50703 | good | 5 | 11 |
| 114 | New Start Mart II | Leaking USTs | 310614796 | 198602852 | 1415 Logan Ave, Waterloo, IA 50703 | good | 5 | 11 |
| 115 | Members Mutual Oil Co | Underground storage tank | 310458327 | 198603888 | 1402 Logan Ave, Waterloo, IA 50704 | poor | 5 | 11 |
| 116 | Member Mutual Coop | Above ground fuel storage | 310494358 | AST13314 | 1402 Logan Ave., Waterloo, IA 50703 | good | 5 | 11 |
| 117 | Member Mutual Coop | Underground storage tank | 310494358 | AST13314 | 1402 Logan Ave., Waterloo, IA 50703 | good | 5 | 11 |

Capture zone: 10-year time of travel (risk factor = 1)

| | | | | | | | | |
|----|---|-------------------------------|---------------------------|--------------------------|--|------|---|----|
| 1 | Iowa Army National Guard(waterloo) | Above ground fuel storage | 311992424 | AST13589 | T89n, R13w, Sec. 4, Sw, Sw, Nw, Waterloo, | good | 5 | 10 |
| 2 | Ia Arng Waterloo Maintenance | Tier II Chemical Storage | 310762639 | FAIDSIT2A000008 | 3106 Airport Blvd, Waterloo, IA 50703 | good | 3 | 8 |
| 3 | Advanced Heat Treat Corp - Midport Blvd | Air Permit - Minor | 310895971 | 07-01-110-02 | 2825 Midport Blvd, Waterloo, IA 50703 | poor | 3 | 8 |
| 4 | Advanced Heat Treat Corporation | Tier II Chemical Storage | 310638598 | 790119 | 2825 Midport Boulevard | good | 3 | 8 |
| 5 | Advanced Heat Treat Corporation | Wastewater treatment facility | 310638598 | 790119 | 2825 Midport Boulevard | good | 5 | 10 |
| 6 | Iowa Army National Guard, Waterloo | Contaminated sites | 311415886 | 821 | T89n, R13w, Sec. 4, Sw, Sw, Ne, Waterloo, | good | 5 | 10 |
| 7 | National Weather Service | Underground storage tank | 310617957 | 198609780 | 2808 Airport Blvd, Waterloo, IA 50703 | poor | 5 | 10 |
| 8 | Trans World Airlines | Underground storage tank | 310599478 | 198604151 | Municipal Airport, Waterloo, IA 50704 | poor | 5 | 10 |
| 9 | Faa Rtr | Underground storage tank | 310432996 | 198602030 | Airport, Waterloo, IA 50701 | poor | 5 | 10 |
| 10 | Fms 2 | Underground storage tank | 311256638 | 198605897 052112-AHB- | 3106 Airport Blvd, Waterloo, IA 50703 | poor | 5 | 10 |
| 11 | Con Agra Foods - Waterloo | Hazardous Materials Spill | 310914222 | 0910 | 2701 Midport Blvd, Waterloo, IA 50703 | poor | 1 | 6 |
| 12 | Alo System Support Center | Underground storage tank | 310486547 | 198602034 | 2740 Airport Blvd, Waterloo, IA 50703 | poor | 5 | 10 |
| 13 | Basic Materials Corp | Underground storage tank | 310602554 | 198607566 | 2625 W Airline Hwy, Waterloo, IA 50703 | poor | 5 | 10 |
| 14 | Advanced Heat Treat Corporation | Wastewater outfall | 310638598 | 790119 | T89n, R13w, Sec. 9, Nw, Sw, Sw, Waterloo, | good | 5 | 10 |
| 15 | Conagra Brands - Waterloo | Air Permit - Minor | 311044036 | FAIDSIT2A000029 | 2701 Midport Blvd., Waterloo, IA 50703 | good | 3 | 8 |
| 16 | Conagra Brands - Waterloo | Tier II Chemical Storage | 311044036 | FAIDSIT2A000029 | 2701 Midport Blvd., Waterloo, IA 50703 | good | 3 | 8 |
| 17 | Cedar Valley Truck Center | Underground storage tank | 310584375 | 198609645 | 2263 W Airline Hwy, Waterloo, IA 50701 | poor | 5 | 10 |
| 18 | Kent Feeds Inc | Underground storage tank | 310588068 | 198604434 | 2233 West Airline Highway, Waterloo, IA 50 | poor | 5 | 10 |
| 19 | Cedar Valley Freightliner | Air Permit - Minor | 312533809 | 07-01-109 | T89n, R13w, Sec. 4, Se, Sw, Se, Waterloo, | good | 3 | 8 |
| 21 | Kent Nutrition Group, Inc - Waterloo | Air Permit - Minor | 311005168 | 07-01-022 | 2233 W. Airline Highway, Waterloo, IA 5070 | good | 3 | 8 |
| 22 | Aspro, Inc - North Plant | Air Permit - Minor | 311113149 | 07-01-024 | 2049 W Airline Hwy, Waterloo, IA 50703 | good | 3 | 8 |
| 23 | Westfield Lumber Co | Underground storage tank | 311255975 | 198603801 | 3170 Wagner Rd, Waterloo, IA 50703 | good | 5 | 10 |
| 24 | Aspro (north) | Tier II Chemical Storage | 310783338 | FAIDSIT2A000036 | 2049 W. Airline Highway, Waterloo, IA 5070 | good | 3 | 8 |
| 25 | Gerald Sulky Company | Air Permit - Minor | 311217224 | 07-01-127 | 3050 Wagner Rd, Waterloo, IA 50703 | good | 3 | 8 |
| 33 | Santa Claus Ind | Underground storage tank | 310493522 | 198601236 | 1519 W Airline Hwy, Waterloo, IA 50704 | poor | 5 | 10 |
| 34 | Alter Scrap Processing, Inc - Waterloo | Air Permit - Minor | 310200305 | 07-01-143 | 1500 W Airline Hwy, Waterloo, IA 50703 | good | 3 | 8 |
| 35 | Alter Scrap Processing, Inc - Waterloo | Solid waste facility | 310200305 | 07-01-143 | 1500 W Airline Hwy, Waterloo, IA 50703 | good | 5 | 10 |
| 36 | American Freight System Inc | Underground storage tank | 310616849 | 198608604 | 1459 Airline Hwy, Waterloo, IA 50701 | poor | 5 | 10 |
| 37 | Alter Metal Recycling | Tier II Chemical Storage | 310901616 | FAIDSIT2A000051 | 1500 W Airline Highway, Waterloo, IA 50703 | good | 3 | 8 |
| 39 | Samson Fabrication, Inc. | Air Permit - Minor | 311113265 | 07-01-123 | 1460 W Airline Hwy, Waterloo, IA 50703 | good | 3 | 8 |
| 59 | Cedar Bend Humane Society | Air Permit - Minor | 312533023 | 07-01-078 | T89n, R13w, Sec. 3, Se, Se, Sw, Waterloo, | good | 3 | 8 |

Capture zone: surface runoff area (risk factor = 1)

| | | | | | | | | |
|----|--|--------------------------|---------------------------|-----------------|------------------------------------|------|---|----|
| 60 | Masterbrand Cabinets, Inc. - Waterloo Operations | Tier II Chemical Storage | 310631064 | FAIDSIT2A000009 | 1205 Peters Dr, Waterloo, IA 50703 | good | 3 | 8 |
| 61 | Masterbrand Cabinets, Inc. - Waterloo Operations | Air Permit - Title V | 310631064 | FAIDSIT2A000009 | 1205 Peters Dr, Waterloo, IA 50703 | good | 3 | 8 |
| 67 | Allan Industrial Coatings - Waterloo | Air Permit - Minor | 311102062 | 07-01-089 | 922 Daniel Dr, Waterloo, IA 50703 | good | 3 | 8 |
| 78 | Casey's General Store 2427 | Underground storage tank | 310515814 | 200200009 | 3035 Logan Ave, Waterloo, IA 50703 | good | 5 | 10 |
| 93 | Hy-vee Gas #2 | Leaking USTs | 310556973 | 200500002 | 2221 Logan Ave, Waterloo, IA 50703 | good | 5 | 10 |

| | | | | | | | | |
|-----|----------------|--------------------------|---------------------------|-----------|--|------|---|-----------|
| 94 | Hy-vee Gas #2 | Underground storage tank | 310556973 | 200500002 | 2221 Logan Ave, Waterloo, IA 50703 | good | 5 | 10 |
| 110 | Kwik Star 1004 | Underground storage tank | 315667348 | 201800026 | T89n, R13w, Sec. 12, Sw, Sw, Sw, Waterloo, | good | 5 | 10 |

¹ID's are hyperlinked to detailed contaminant source information where available. Click once to open the spreadsheet, then click again to follow the link.

²Estimated horizontal accuracy: < 25m. = good; 25m. to 50m. = fair; >50m. = poor

³Score range: 1 to 5, see Table 3 of the Iowa Source Water Protection and Assessment plan

⁴Sum of land use, capture zone, and aquifer susceptibility risk factors

Table 1b. Inventory and ranking of potential contaminant sources in the Silurian-Devonian aquifer.

Waterloo Public Water Supply (790074)
Phase I - Contaminant Source Inventory and Assessment

Aquifer: Silurian-Devonian Highly Susceptible (risk factor = 4)

| Map No. | Site Name | Site Type | Site Link ¹ | Program ID | Site Address | Loc'n Acc ² | Land Use Risk ³ | Risk Score ⁴ |
|--|--|--------------------------------------|---------------------------|-----------------|--|------------------------|----------------------------|-------------------------|
| Capture zone: modified karst - high (risk factor = 3) | | | | | | | | |
| 43 | Cedar Valley Corporation | Underground storage tank | 310477499 | FAIDSIT2A000034 | 2637 Wagner Road, Waterloo, IA 50704 | poor | 5 | 12 |
| 44 | Cedar Valley Corporation | Tier II Chemical Storage | 310477499 | FAIDSIT2A000034 | 2637 Wagner Road, Waterloo, IA 50704 | poor | 3 | 10 |
| 45 | Cedar Valley Corp.(waterloo) | Above ground fuel storage | 311991772 | AST13513 | 2637 Wagner Rd, Waterloo, IA 50703 | poor | 5 | 12 |
| 46 | Canadian National/Illinois Central (cn/ic) | Hazardous Materials Spill | 311682847 | 100306-AHB-0905 | Broadway St & Wagner Rd, Waterloo, IA 5070 | poor | 1 | 8 |
| 47 | Midwest Wood Products - Waterloo | Air Permit - Minor | 311176611 | 07-01-148 | 25 Main St, Waterloo, IA 50703 | poor | 3 | 10 |
| 48 | Tournier Manaufacturing, Inc | Air Permit - PBR Spray Booth | 312533936 | 07-01-165 | T89n, R13w, Sec. 10, Nw, Sw, Sw, Waterloo, | good | 3 | 10 |
| 49 | Kwik Star #840 | Tier II Chemical Storage | 310507083 | FAIDSIT2A000019 | 2702 Ranchero Rd, Waterloo, IA 50701 | poor | 3 | 10 |
| 50 | Kwik Star #840 | Underground storage tank | 310507083 | FAIDSIT2A000019 | 2702 Ranchero Rd, Waterloo, IA 50701 | poor | 5 | 12 |
| 51 | Waterloo Greyhound Park | Contaminated sites | 312093037 | 2231 | T88n, R13w, Sec. 6, Sw, Ne, Ne, Waterloo, | good | 5 | 12 |
| 63 | Railroad Line Segment | Hazardous Materials Spill | 311961918 | 120411-BDJ-1418 | 1750 Broadway Street, Waterloo, IA 50703 | good | 1 | 8 |
| 66 | Loves Travel Stop 702 | Underground storage tank | 314249791 | 201800004 | 3301 Greyhound Dr, Waterloo, IA 50701 | good | 5 | 12 |
| 67 | Hydrite Chemical Company | Air Permit - Minor | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 3 | 10 |
| 68 | Hydrite Chemical Company | Hazardous Materials Spill | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 1 | 8 |
| 69 | Hydrite Chemical Company | Hazardous Materials Spill | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 1 | 8 |
| 70 | Hydrite Chemical Company | Tier II Chemical Storage | 310964291 | 062201-KAL-1605 | 2815 Wcf And N Dr, Waterloo, IA 50703 | good | 3 | 10 |
| 71 | Hydrite Chemical Co. | Contaminated sites | 312613179 | 2381 | T89n, R13w, Sec. 10, Nw, Se, Ne, Waterloo, | good | 5 | 12 |
| 73 | Sam Annis And Co | Tier II Chemical Storage | 310777236 | FAIDSIT2A000027 | 807 Rainbow Drive, Waterloo, IA 50701 | poor | 3 | 10 |
| 74 | Transformer Spill | Hazardous Materials Spill | 311594719 | 041602-KAL-1341 | 1554 Oakwood Dr, Waterloo, IA 50703 | good | 1 | 8 |
| 76 | East Central Iowa Co-op | Air Permit - Group 1 Grain Elevators | 311189498 | 07-01-137 | 1750 Broadway St, Waterloo, IA 50703 | good | 3 | 10 |
| 77 | East Central Iowa Co-op | Underground storage tank | 311189498 | 07-01-137 | 1750 Broadway St, Waterloo, IA 50703 | good | 5 | 12 |
| 82 | Handling And Storage Spill | Hazardous Materials Spill | 311610952 | 121805-JPS-1815 | 1105 Cedar Bend St, Waterloo, IA 50703 | good | 1 | 8 |
| 83 | Kwik Star #724 | Underground storage tank | 310588908 | 198603364 | 1105 Cedar Bend Dr, Waterloo, IA 50703 | poor | 5 | 12 |
| 84 | Kwik Star Decorah | Hazardous Materials Spill | 311649035 | 020106-SJM-1708 | 1105 Cedar Bend St, Waterloo, IA 50703 | poor | 1 | 8 |
| 86 | John Hayes | Solid waste facility | 310655248 | 07-CRT-04-08 | 2806 Falls Avenue, Waterloo, IA 50701 | poor | 5 | 12 |
| 89 | Waterloo Water Works | Underground storage tank | 310514495 | 198600675 | 747 Cedar Bend, Waterloo, IA 50703 | poor | 5 | 12 |
| 90 | Miracle Car Wash | Leaking USTs | 310582913 | 198608631 | 2727 University Ave, Waterloo, IA 50701 | poor | 5 | 12 |
| 91 | Miracle Car Wash | Leaking USTs | 310582913 | 198608631 | 2727 University Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 92 | Miracle Car Wash | Underground storage tank | 310582913 | 198608631 | 2727 University Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 94 | U S West | Underground storage tank | 310606494 | 198609762 | 1010 Stratford, Waterloo, IA 50701 | good | 5 | 12 |
| 95 | U S West | Leaking USTs | 310606494 | 198609762 | 1010 Stratford, Waterloo, IA 50701 | good | 5 | 12 |
| 96 | Former Fuller Roof | Underground storage tank | 310599834 | 199117412 | 907 Stratford, Waterloo, IA 50701 | poor | 5 | 12 |
| 97 | Community Body Shop | Air Permit - PBR Spray Booth | 311461986 | 07-01-158 | 2531 Falls Ave, Waterloo, IA 50701 | good | 3 | 10 |
| 98 | Mark Gill Buick Inc | Underground storage tank | 310488827 | 198710364 | 2531 Falls Ave, Waterloo, IA 50704 | poor | 5 | 12 |
| 99 | Waterloo Wilbert Vault Co | Underground storage tank | 310527212 | 198606616 | 2501 Falls Avenue, Waterloo, IA 50701 | poor | 5 | 12 |

| | | | | | | | | |
|-----|-------------------------------------|-------------------------------|---------------------------|-----------------|--|------|---|----|
| 100 | Handling And Storage Spill | Hazardous Materials Spill | 311636147 | 030901-DLP-1717 | 411 Normandy St, Waterloo, IA 50703 | good | 1 | 8 |
| 101 | Exceptional Persons Inc | Underground storage tank | 310575016 | 198602576 | 2424 Falls Avenue, Waterloo, IA 50701 | poor | 5 | 12 |
| 102 | Webers Cycle Center Inc | Underground storage tank | 310547561 | 198915624 | 809 Ansborough, Waterloo, IA 50701 | poor | 5 | 12 |
| 103 | Metro Mart 4 | Underground storage tank | 310458354 | 198608385 | 2332 Falls Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 104 | Metro Mart 4 | Leaking USTs | 310458354 | 198608385 | T89n, R13w, Sec. 22, Sw, Sw, Nw, Waterloo, | good | 5 | 12 |
| 105 | Metro Mart 4 | Leaking USTs | 310458354 | 198608385 | 2332 Falls Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 106 | Black Hawk County Shop | Underground storage tank | 311255302 | 198602160 | 1329 Longfellow Ave, Waterloo, IA 50703 | good | 5 | 12 |
| 107 | Culligan | Underground storage tank | 310532368 | 198608624 | 207 Rainbow Dr, Waterloo, IA 50701 | poor | 5 | 12 |
| 108 | Syngenta Seeds | Tier II Chemical Storage | 311470614 | FAIDSIT2A000062 | 225 Ida Street, Waterloo, IA 50701 | good | 3 | 10 |
| 109 | Handling And Storage Spill | Hazardous Materials Spill | 311581776 | 112102-DLP-1440 | 1203 Longfellow Ave, Waterloo, IA 50703 | good | 1 | 8 |
| 110 | D & J Oil Co | Above ground fuel storage | 310432163 | AST14068 | 1145 W Donald St, Waterloo, IA 50703 | poor | 5 | 12 |
| 111 | D & J Oil Co | Underground storage tank | 310432163 | AST14068 | 1145 W Donald St, Waterloo, IA 50703 | poor | 5 | 12 |
| 112 | Marv's Auto Electric | Leaking USTs | 311259326 | 198914391 | 2125 Falls Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 113 | Marv's Auto Electric | Underground storage tank | 311259326 | 198914391 | 2125 Falls Ave, Waterloo, IA 50701 | good | 5 | 12 |
| 114 | New Star Three | Underground storage tank | 310523332 | 198609488 | 1459 Ansborough Ave, Waterloo, IA 50701 | poor | 5 | 12 |
| 115 | Falls Rent All Cedarloo | Underground storage tank | 310620689 | 198913954 | 2117 Falls Ave, Waterloo, IA 50701 | poor | 5 | 12 |
| 116 | Standard Forwarding Co Inc | Underground storage tank | 310504953 | 198603042 | 921 Blackhawk Rd, Waterloo, IA 50701 | good | 5 | 12 |
| 117 | Standard Forwarding Co Inc | Leaking USTs | 310504953 | 198603042 | 921 Blackhawk Rd, Waterloo, IA 50701 | good | 5 | 12 |
| 118 | J&I Plumbing/heating | Underground storage tank | 310478563 | 198609433 | 911 Black Hawk Rd, Waterloo, IA 50701 | poor | 5 | 12 |
| 119 | Waterloo Water Works | Underground storage tank | 310624054 | 198600674 | 219 St John Street, Waterloo, IA 50703 | poor | 5 | 12 |
| 120 | Lockard Const | Underground storage tank | 310435893 | 198607147 | 901 Blk Hawk Rd, Waterloo, IA 50701 | poor | 5 | 12 |
| 121 | Transformer Spill | Hazardous Materials Spill | 311639171 | 061400-CWO-0900 | 1315 Englewood Ave, Waterloo, IA 50701 | good | 1 | 8 |
| 122 | Gubbel Heating & Ac | Solid waste facility | 310200298 | 07-ADP-01-03 | 1717 Falls Ave, Waterloo, IA 50701 | poor | 5 | 12 |
| 123 | Pepsi Beverages Company | Tier II Chemical Storage | 311535954 | FAIDSIT2A000020 | 1424 Burton Avenue, Waterloo, IA 50703 | poor | 3 | 10 |
| 124 | Not Known | Underground storage tank | 310533198 | 198603188 | 510 Thorson, Waterloo, IA 50704 | poor | 5 | 12 |
| 127 | Newkirk Sales Co | Underground storage tank | 310484812 | 198602509 | 306 Thorson Ave, Waterloo, IA 50704 | poor | 5 | 12 |
| 130 | Not Known | Underground storage tank | 310602618 | 198608267 | T89n, R13w, Sec. 14, Nw, Se, Nw, Waterloo, | poor | 5 | 12 |
| 197 | Vic Fuller Salvage & Wrecking, Ltd. | Underground storage tank | 310956542 | 198604944 | 2113 E. Mitchell Ave., Waterloo, IA 50702 | good | 5 | 12 |
| 201 | Waterloo Mills Company | Underground storage tank | 310501374 | 198604037 | 2050 Mitchell, Waterloo, IA 50704 | poor | 5 | 12 |
| 215 | Not Known | Underground storage tank | 311257239 | 198606758 | 1925 Laporte Rd, Waterloo, IA 50702 | good | 5 | 12 |
| 216 | Triple J Mart | Underground storage tank | 310564593 | 198608544 | 1807 Laporte Rd, Waterloo, IA 50702 | good | 5 | 12 |
| 217 | Triple J Mart | Leaking USTs | 310564593 | 198608544 | 1807 Laporte Rd, Waterloo, IA 50702 | good | 5 | 12 |
| 220 | Boubin Muffler Shop | Underground storage tank | 310437982 | 198811610 | 1935 Enterprise, Waterloo, IA 50702 | poor | 5 | 12 |
| 221 | Iowa Northern Railroad Company | Contaminated sites | 311906882 | 1349 | T89n, R12w, Sec. 31, Sw, Sw, Sw, Waterloo, | good | 5 | 12 |
| 222 | Crossroads Ford Ltd | Underground storage tank | 311254958 | 198601404 | 2033 Laporte Road, Waterloo, IA 50702 | good | 5 | 12 |
| 223 | Aspro, Inc - South Plant | Underground storage tank | 311113158 | FAIDSIT2A000000 | 3613 Texas St, Waterloo, IA 50702 | good | 5 | 12 |
| 224 | Aspro, Inc - South Plant | Tier II Chemical Storage | 311113158 | FAIDSIT2A000000 | 3613 Texas St, Waterloo, IA 50702 | good | 3 | 10 |
| 225 | Aspro, Inc - South Plant | Air Permit - Minor | 311113158 | FAIDSIT2A000000 | 3613 Texas St, Waterloo, IA 50702 | good | 3 | 10 |
| 226 | Waterloo City Of Stp | Wastewater outfall | 310652027 | 790001 | T89n, R12w, Sec. 31, Sw, Se, Ne, Waterloo, | good | 5 | 12 |
| 227 | Waterloo City Of Stp | Air Permit - Minor | 310652027 | 790001 | 3505 Easton Avenue, Waterloo, IA 50702 | good | 3 | 10 |
| 228 | Waterloo City Of Stp | Wastewater treatment facility | 310652027 | 790001 | 3505 Easton Avenue, Waterloo, IA 50702 | good | 5 | 12 |
| 232 | Beverly Bennett | Underground storage tank | 310586555 | 198913435 | Rfd, La Porte City, IA 50651 | poor | 5 | 12 |

Capture zone: modified karst - medium (risk factor = 2)

| | | | | | | | | |
|---|--|---------------------------|---------------------------|-----------------|--|------|---|---|
| 1 | John Deere Product Engineering Facility - Construction | Hazardous Materials Spill | 311396391 | 092013-CWO-1135 | 6725 Cedar Heights Dr., Cedar Falls, IA 50 | poor | 1 | 7 |
|---|--|---------------------------|---------------------------|-----------------|--|------|---|---|

| | | | | | | | | |
|----|---------------------------------------|-------------------------------|---------------------------|-----------------|--|------|---|----|
| 2 | John Deere Engine Works | Air Permit - Title V | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 3 | 9 |
| 3 | John Deere Engine Works | Above ground fuel storage | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 4 | John Deere Engine Works | Underground storage tank | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 5 | John Deere Engine Works | Wastewater treatment facility | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 6 | John Deere Engine Works | Tier II Chemical Storage | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 3 | 9 |
| 7 | John Deere Engine Works | Above ground fuel storage | 310631995 | AST13746 | 3801 W Ridgeway Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 8 | John Deere Engine Works | Leaking USTs | 310631995 | AST13746 | 3801 W Ridgeway, Waterloo, IA 50701 | good | 5 | 11 |
| 9 | John Deere Product Engineering Center | Leaking USTs | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Drive, Cedar Falls, IA | good | 5 | 11 |
| 10 | Waterloo Water Wks | Underground storage tank | 310488416 | 198600677 | 3131 W Ridgeway, Waterloo, IA 50701 | good | 5 | 11 |
| 11 | Waterloo Water Wks | Leaking USTs | 310488416 | 198600677 | 3131 W Ridgeway, Waterloo, IA 50701 | good | 5 | 11 |
| 12 | Waterloo Mtso | Tier II Chemical Storage | 310790913 | FAIDSIT2A000044 | 3420 W Ridgeway Avenue, Waterloo, IA 50701 | poor | 3 | 9 |
| 13 | John Deere Product Engineering Center | Leaking USTs | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Drive, Cedar Falls, IA | good | 5 | 11 |
| 14 | John Deere Product Engineering Center | Tier II Chemical Storage | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Dr, Cedar Falls, IA 506 | good | 3 | 9 |
| 15 | John Deere Product Engineering Center | Air Permit - Title V | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Dr, Cedar Falls, IA 506 | good | 3 | 9 |
| 16 | John Deere Product Engineering Center | Underground storage tank | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Dr, Cedar Falls, IA 506 | good | 5 | 11 |
| 17 | John Deere Product Engineering Center | Wastewater outfall | 310647173 | 790102 | T89n, R13w, Sec. 31, Se, Sw, Se, Waterloo, | poor | 5 | 11 |
| 18 | John Deere (pec)(cedar Falls) | Above ground fuel storage | 311995305 | AST13941 | 6725 Cedar Heights, Cedar Falls, IA 50613 | good | 5 | 11 |
| 19 | John Deere Engine Works | Wastewater outfall | 310631995 | AST13746 | T88n, R14w, Sec. 1, Ne, Nw, Se, Waterloo, | good | 5 | 11 |
| 20 | John Deere Product Engineering Center | Wastewater outfall | 310647173 | 790102 | T89n, R13w, Sec. 31, Ne, Se, Ne, Cedar Fal | good | 5 | 11 |
| 21 | John Deere Product Engineering Center | Wastewater outfall | 310647173 | 790102 | T89n, R13w, Sec. 31, Ne, Se, Ne, Cedar Fal | good | 5 | 11 |
| 22 | Best Rental | Underground storage tank | 310533821 | 198914911 | 4051 University Ave, Waterloo, IA 50704 | poor | 5 | 11 |
| 23 | John Deere Product Engineering Center | Wastewater outfall | 310647173 | 790102 | T89n, R13w, Sec. 31, Se, Ne, Sw, Cedar Fal | good | 5 | 11 |
| 24 | Former Midway Bank & Trust | Underground storage tank | 310573429 | 197910077 | 3910 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 25 | Former Midway Bank & Trust | Leaking USTs | 310573429 | 197910077 | 3910 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 26 | John Deere Product Engineering Center | Leaking USTs | 310631457 | FAIDSIT2A000001 | 6725 Cedar Heights Drive, Cedar Falls, IA | good | 5 | 11 |
| 27 | John Deere Product Engineering Center | Wastewater treatment facility | 310647173 | 790102 | 6725 Cedar Heights Dr, Cedar Falls, IA 506 | good | 5 | 11 |
| 28 | Former Crouse Cartage | Underground storage tank | 310524475 | 198604260 | 3841 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 29 | Former Crouse Cartage | Leaking USTs | 310524475 | 198604260 | 3841 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 30 | The General Store | Underground storage tank | 310490361 | 198603282 | 3821 University Ave, Waterloo, IA 50704 | poor | 5 | 11 |
| 31 | K Mart #4158 | Underground storage tank | 311256683 | 198606022 | 3810 University Ave, Waterloo, IA 50701 | poor | 5 | 11 |
| 32 | Hy-vee Gas #4 | Underground storage tank | 310604469 | 199117320 | 3700 University Avenue, Waterloo, IA 50701 | good | 5 | 11 |
| 33 | Oscos #18-856 | Underground storage tank | 310484214 | 199617909 | 3715 University Ave, Waterloo, IA 50703 | poor | 5 | 11 |
| 34 | Transformer Spill | Hazardous Materials Spill | 311681375 | 032802-DLP-0948 | 3675 University Ave, Waterloo, IA 50701 | good | 1 | 7 |
| 35 | U-haul Company | Underground storage tank | 310435035 | 199717916 | 3633 University, Waterloo, IA 50701 | good | 5 | 11 |
| 36 | U-haul Company | Leaking USTs | 310435035 | 199717916 | 3633 University, Waterloo, IA 50701 | good | 5 | 11 |
| 37 | Waterloo Community School District | Underground storage tank | 310454803 | 198604466 | 1350 S Hackett Rd, Waterloo, IA 50701 | good | 5 | 11 |
| 38 | Waterloo Community School District | Leaking USTs | 310454803 | 198604466 | 1350 S Hackett Rd, Waterloo, IA 50701 | good | 5 | 11 |
| 39 | University Motor Co | Underground storage tank | 310551578 | 198601885 | 722 S Hackett, Waterloo, IA 50701 | poor | 5 | 11 |
| 40 | Young Plumbing & Heating | Solid waste facility | 310200378 | 07-ADP-07-03 | 750 S Hackett Rd, Waterloo, IA 50701 | poor | 5 | 11 |
| 41 | Us Postal Service | Underground storage tank | 310621244 | 197910011 | 3551 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 42 | Us Postal Service | Leaking USTs | 310621244 | 197910011 | 3551 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 52 | Holiday Stationstore 52 | Underground storage tank | 310470361 | 198604814 | 3260 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 53 | Holiday Stationstore 52 | Leaking USTs | 310470361 | 198604814 | 3260 University Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 54 | Northland Products Company | Hazardous Materials Spill | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 1 | 7 |
| 55 | Northland Products Company | Underground storage tank | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 5 | 11 |

| | | | | | | | | |
|-----|--|---------------------------|---------------------------|-----------------|--|------|---|-----------|
| 56 | Northland Products Company | Contaminated sites | 310994022 | AST13083 | T89n, R13w, Sec. 21, Ne, Nw, Se, Waterloo, | good | 5 | 11 |
| 57 | Northland Products Company | Above ground fuel storage | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 58 | Northland Products Company | Air Permit - Minor | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 3 | 9 |
| 59 | Northland Products Company | Above ground fuel storage | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 60 | Northland Products Company | Hazardous Materials Spill | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 1 | 7 |
| 61 | Northland Products Company | Tier II Chemical Storage | 310994022 | AST13083 | 1000 Rainbow Dr, Waterloo, IA 50701 | good | 3 | 9 |
| 62 | Northland Products Company(waterloo) | Above ground fuel storage | 311987885 | AST13085 | 1000 Rainbow Dr # Z108, Waterloo, IA 50701 | poor | 5 | 11 |
| 64 | Henry Meinders | Underground storage tank | 310493668 | 198606943 | 811 Rainbow Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 65 | Henry Meinders | Leaking USTs | 310493668 | 198606943 | 811 Rainbow Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 72 | Annis Petroleum Products, Inc.(waterloo) | Above ground fuel storage | 311981827 | AST12447 | T89n, R13w, Sec. 21, Ne, Ne, Sw, Waterloo, | good | 5 | 11 |
| 75 | Transformer Spill | Hazardous Materials Spill | 311664809 | 092001-DLP-2056 | 1291 Downing Ct, Waterloo, IA 50701 | poor | 1 | 7 |
| 78 | Kum & Go #442 | Underground storage tank | 310593474 | 198608192 | 2900 Falls Avenue, Waterloo, IA 50701 | good | 5 | 11 |
| 79 | Kum & Go #442 | Leaking USTs | 310593474 | 198608192 | 2900 Falls Avenue, Waterloo, IA 50701 | good | 5 | 11 |
| 80 | Transportation Spill | Hazardous Materials Spill | 311681648 | 120101-DLP-1017 | 333 Joy Dr, Waterloo, IA 50701 | good | 1 | 7 |
| 81 | Annis & Company | Underground storage tank | 310459753 | 198608611 | 807 Rainbow Dr, Waterloo, IA 50704 | poor | 5 | 11 |
| 85 | 300 Ansborough Avenue, Waterloo | Contaminated sites | 311964066 | 1575 | T89n, R13w, Sec. 21, Ne, Se, Ne, Waterloo, | good | 5 | 11 |
| 87 | Coastal Mart Inc | Leaking USTs | 310627033 | 198602880 | 611 Rainbow, Waterloo, IA 50701 | good | 5 | 11 |
| 88 | Coastal Mart Inc | Underground storage tank | 310627033 | 198602880 | 611 Rainbow, Waterloo, IA 50701 | good | 5 | 11 |
| 93 | Waterloo Industries | Underground storage tank | 310604543 | 198600006 | 300 Ansborough Avenue, Waterloo, IA 50704 | poor | 5 | 11 |
| 125 | West 4th 66 | Leaking USTs | 310577545 | 198608629 | 3233 W 4th, Waterloo, IA 50701 | good | 5 | 11 |
| 126 | West 4th 66 | Underground storage tank | 310577545 | 198608629 | 3233 W 4th, Waterloo, IA 50701 | good | 5 | 11 |
| 128 | Metro Mart 1 | Leaking USTs | 310498498 | 198608630 | 3201 W 4th St, Waterloo, IA 50701 | good | 5 | 11 |
| 129 | Metro Mart 1 | Underground storage tank | 310498498 | 198608630 | 3201 W 4th St, Waterloo, IA 50701 | good | 5 | 11 |
| 131 | L & N Pronto | Leaking USTs | 310612998 | 198609445 | 3012 Ansborough Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 132 | L & N Pronto | Underground storage tank | 310612998 | 198609445 | 3012 Ansborough Ave, Waterloo, IA 50701 | good | 5 | 11 |
| 133 | Transformer Spill | Hazardous Materials Spill | 311649957 | 010202-CWO-1749 | 3241 Ansborough Ave, Waterloo, IA 50701 | good | 1 | 7 |
| 134 | Waterloo Fire Dept #6 Station | Underground storage tank | 310593549 | 198603507 | 3233 Ansborough Ave, Waterloo, IA 50701 | poor | 5 | 11 |
| 135 | Marjorie K. Young | Underground storage tank | 310560733 | 197910416 | 424 Kingbard, Waterloo, IA 50702 | good | 5 | 11 |
| 136 | Marjorie K. Young | Leaking USTs | 310560733 | 197910416 | 424 Kingbard, Waterloo, IA 50702 | good | 5 | 11 |
| 137 | Kwik Star #715 | Hazardous Materials Spill | 310466365 | 100416-BDJ-1225 | 1636 W 4th St, Waterloo, IA 50702 | good | 1 | 7 |
| 138 | Kwik Star #715 | Underground storage tank | 310466365 | 100416-BDJ-1225 | 1636 W 4th St, Waterloo, IA 50702 | good | 5 | 11 |
| 139 | Kwik Star #715 | Leaking USTs | 310466365 | 100416-BDJ-1225 | 1636 W 4th St, Waterloo, IA 50702 | good | 5 | 11 |
| 140 | Kwik Star #715 | Leaking USTs | 310466365 | 100416-BDJ-1225 | 1636 W 4th St, Waterloo, IA 50702 | good | 5 | 11 |
| 141 | Former Esther Sandleman Property | Leaking USTs | 310621724 | 197910055 | 1600 W 4th Street, Waterloo, IA 50702 | good | 5 | 11 |
| 142 | Former Esther Sandleman Property | Underground storage tank | 310621724 | 197910055 | 1600 W 4th Street, Waterloo, IA 50702 | good | 5 | 11 |
| 143 | Metro 66 #5 | Underground storage tank | 310548779 | 198608386 | 1625 W 4th St, Waterloo, IA 50702 | good | 5 | 11 |
| 144 | Metro 66 #5 | Leaking USTs | 310548779 | 198608386 | 1625 W 4th St, Waterloo, IA 50702 | good | 5 | 11 |
| 145 | Transformer Spill | Hazardous Materials Spill | 311673973 | 111000-DLP-1425 | 1030 Kimball Ave, Waterloo, IA 50702 | good | 1 | 7 |
| 146 | Waterloo Cemetery | Cemeteries | | | T89n, R13w, Sec. 34, Se, Ne, Waterloo, IA | good | 2 | 8 |
| 147 | Transportation Spill | Hazardous Materials Spill | 311669968 | 121701-DLP-1135 | T89n, R13w, Sec. 35, Nw, Nw, Sw, Waterloo, | poor | 1 | 7 |
| 148 | Manocare Health Services | Leaking USTs | 310600965 | 197910035 | 201 W Ridgeway, Waterloo, IA 50701 | good | 5 | 11 |
| 149 | Manocare Health Services | Underground storage tank | 310600965 | 197910035 | 201 W Ridgeway, Waterloo, IA 50701 | good | 5 | 11 |
| 150 | Ia Medical Waste Reduction Center - Kimbal | Tier II Chemical Storage | 310559652 | FAIDSIT2A000058 | 2101 Kimball Ave, Waterloo, IA 50702 | good | 3 | 9 |
| 151 | Ia Medical Waste Reduction Center - Kimbal | Underground storage tank | 310559652 | FAIDSIT2A000058 | 2101 Kimball Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 152 | Ia Medical Waste Reduction Center - Kimbal | Solid waste facility | 310559652 | FAIDSIT2A000058 | 2101 Kimball Ave, Waterloo, IA 50702 | good | 5 | 11 |

| | | | | | | | | |
|-----|---------------------------------------|-------------------------------|---------------------------|-----------------|--|------|---|-----------|
| 153 | Former Family Circle 76 | Leaking USTs | 310529827 | 198601264 | 111 W Ridgeway, Waterloo, IA 50702 | good | 5 | 11 |
| 154 | Former Family Circle 76 | Underground storage tank | 310529827 | 198601264 | 111 W Ridgeway, Waterloo, IA 50702 | good | 5 | 11 |
| 155 | Covenant Medical Center - Kimball Ave | Air Permit - Minor | 311176602 | 07-01-117 | 2101 Kimball Avenue, Waterloo, IA 50702 | good | 3 | 9 |
| 156 | Sons Of Jacob Synagogue | Underground storage tank | 311909245 | 197910623 | 411 E Mitchell Avenue, Waterloo, IA 50702 | good | 5 | 11 |
| 157 | Sons Of Jacob Synagogue | Leaking USTs | 311909245 | 197910623 | 411 E Mitchell Avenue, Waterloo, IA 50702 | good | 5 | 11 |
| 158 | Jim Lind Service | Leaking USTs | 310440234 | 198606461 | 230 E Ridgeway Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 159 | Jim Lind Service | Underground storage tank | 310440234 | 198606461 | 230 E Ridgeway Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 160 | Jim Lind Service | Leaking USTs | 310440234 | 198606461 | 230 E Ridgeway Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 161 | Quiktrip #512 | Leaking USTs | 310539067 | 198609512 | 334 Ridgeway Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 162 | Quiktrip #512 | Underground storage tank | 310539067 | 198609512 | 334 Ridgeway Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 163 | West High School Parking Lot | Underground storage tank | 311305734 | 197910638 | 425 East Ridgeway Ave, Waterloo, IA 50702 | fair | 5 | 11 |
| 164 | West High School Parking Lot | Leaking USTs | 311305734 | 197910638 | 425 East Ridgeway Ave, Waterloo, IA 50702 | fair | 5 | 11 |
| 165 | Servquik Cleaners - Waterloo | Air Permit - Dry Cleaner | 312510208 | 07-01-104 | 3622 Kimball Ave, Waterloo, IA 50702 | good | 3 | 9 |
| 166 | Handling And Storage Spill | Hazardous Materials Spill | 311580913 | 021800-KAL-1343 | T89n, R13w, Sec. 35, Ne, Sw, Ne, Waterloo, | poor | 1 | 7 |
| 167 | Covenant Medical Center | Wastewater outfall | 310644078 | 790122 | T88n, R13w, Sec. 3, Nw, Se, Se, Waterloo, | good | 5 | 11 |
| 168 | Covenant Medical Center | Solid waste facility | 310644078 | 790122 | 3421 W 9th St, Waterloo, IA 50702 | good | 5 | 11 |
| 169 | Covenant Medical Center | Wastewater treatment facility | 310644078 | 790122 | 3421 W 9th St, Waterloo, IA 50702 | good | 5 | 11 |
| 170 | Cmc At West Ninth | Airports, landing fields | | | T88n, R13w, Sec. 3, Se, Nw, Nw, Waterloo, | good | 4 | 10 |
| 171 | Columbus High School | Underground storage tank | 310582019 | 198600305 | 3231 W. 9th St., Waterloo, IA 50702 | poor | 5 | 11 |
| 172 | Covenant Medical Center | Hospitals | | | 3421 West 9th Street, Waterloo, IA 51241 | good | 4 | 10 |
| 173 | Pallotta Middle School | Hazardous Materials Spill | 311966288 | 120810-CK1-0505 | St. Francis Drive, Waterloo, IA 50702 | good | 1 | 7 |
| 174 | Kittrell Elementary School | Wastewater treatment facility | 311161807 | 790124 | 1520 Easton Avenue, Waterloo, IA 50702 | good | 5 | 11 |
| 175 | Gmac Mortgage Corporation Of Iowa | Underground storage tank | 310443511 | 198912541 | 3451 Hammond Ave, Waterloo, IA 50702 | poor | 5 | 11 |
| 176 | Gmac Mortgage Corporation | Hazardous Materials Spill | 310429555 | 090204-AHB-0944 | 3451 Hammond Ave, Waterloo, IA 50702 | good | 1 | 7 |
| 177 | Quiktrip #545 | Leaking USTs | 310432623 | 198608470 | 3804 Hammond Ave #545, Waterloo, IA 50702 | good | 5 | 11 |
| 178 | Quiktrip #545 | Underground storage tank | 310432623 | 198608470 | 3804 Hammond Ave #545, Waterloo, IA 50702 | good | 5 | 11 |
| 179 | Menards | Underground storage tank | 310560253 | 199317597 | 1125 E San Marnan Dr, Waterloo, IA 50702 | good | 5 | 11 |
| 180 | Menards | Leaking USTs | 310560253 | 199317597 | 1125 E San Marnan Dr, Waterloo, IA 50702 | good | 5 | 11 |
| 181 | Reed Cadillac Olds | Underground storage tank | 310473108 | 198601983 | 1045 East San Marnan Drive, Waterloo, IA 5 | good | 5 | 11 |
| 182 | Reed Cadillac Olds | Leaking USTs | 310473108 | 198601983 | 1045 E San Marnan Blvd, Waterloo, IA 50702 | good | 5 | 11 |
| 183 | Exceptional Persons Inc | Underground storage tank | 310605048 | 197910225 | 1139-1161 Flammang Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 184 | Exceptional Persons Inc | Leaking USTs | 310605048 | 197910225 | 1139-1161 Flammang Dr, Waterloo, IA 50701 | good | 5 | 11 |
| 185 | Rtc Property | Leaking USTs | 310579925 | 197910141 | 1139-1161 Flammang Dr, Waterloo, IA 50702 | good | 5 | 11 |
| 186 | Rtc Property | Underground storage tank | 310579925 | 197910141 | 1139-1161 Flammang Dr, Waterloo, IA 50702 | good | 5 | 11 |
| 187 | Prime Mart | Underground storage tank | 310562368 | 198601008 | 1008 La Porte Rd, Waterloo, IA 50702 | good | 5 | 11 |
| 188 | Prime Mart | Leaking USTs | 310562368 | 198601008 | 1008 La Porte Rd, Waterloo, IA 50702 | good | 5 | 11 |
| 189 | Rydell Chevrolet | Underground storage tank | 311189461 | 07-01-075 | 1325 East San Marnan Drive, Waterloo, IA 5 | poor | 5 | 11 |
| 190 | Rydell Chevrolet | Air Permit - Minor | 311189461 | 07-01-075 | 1325 East San Marnan Drive, Waterloo, IA 5 | poor | 3 | 9 |
| 191 | Iowa Dot | Underground storage tank | 310520635 | 199317640 | 1875 W Ridgeway, Waterloo, IA 50704 | poor | 5 | 11 |
| 192 | Transportation Spill | Hazardous Materials Spill | 311690125 | 082508-KAL-1605 | Interstate 80, Waterloo, IA 50702 | poor | 1 | 7 |
| 193 | Crossroads Amoco | Underground storage tank | 310580119 | 199617839 | 2035 E Mitchell Ave, Waterloo, IA 50702 | poor | 5 | 11 |
| 194 | Former Crossroads 76 | Underground storage tank | 310478336 | 197910249 | 2035 E Mitchell Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 195 | Former Crossroads 76 | Leaking USTs | 310478336 | 197910249 | 2035 E Mitchell Ave, Waterloo, IA 50702 | good | 5 | 11 |
| 196 | Central Iowa Lubrication(waterloo) | Above ground fuel storage | 311981618 | AST12422 | 1423 E San Marnan Dr, Waterloo, IA 50702 | poor | 5 | 11 |
| 198 | Casey's General Store 2880 | Leaking USTs | 310587718 | 198604822 | 1604 Laporte Rd, Waterloo, IA 50702 | good | 5 | 11 |

| | | | | | | | | |
|-----|-----------------------------|---------------------------|---------------------------|-----------------|--|------|---|-----------|
| 199 | Casey's General Store 2880 | Underground storage tank | 310587718 | 198604822 | 1604 Laporte Rd, Waterloo, IA 50702 | good | 5 | 11 |
| 200 | Hy-vee Inc #3 | Underground storage tank | 310436883 | 200300017 | 1512 Flaming Dr, Waterloo, IA 50702 | poor | 5 | 11 |
| 202 | Verns 66 | Leaking USTs | 310591154 | 198608628 | 1607 La Porte Rd, Waterloo, IA 50702 | good | 5 | 11 |
| 203 | Verns 66 | Underground storage tank | 310591154 | 198608628 | 1607 La Porte Rd, Waterloo, IA 50702 | good | 5 | 11 |
| 204 | K Mart #3291 | Underground storage tank | 311256674 | 198606017 | 1645 E San Marnan, Waterloo, IA 50702 | good | 5 | 11 |
| 205 | Transformer Spill | Hazardous Materials Spill | 311615575 | 031000-KAL-1146 | T88n, R13w, Sec. 2, Ne, Sw, Sw, Waterloo, | fair | 1 | 7 |
| 206 | Firestone Real Estate Bk-62 | Underground storage tank | 311255811 | 198603497 | 2710 Crossroads Blvd, Waterloo, IA 50702 | good | 5 | 11 |
| 207 | Firestone Real Estate Bk-62 | Leaking USTs | 311255811 | 198603497 | 2710 Crossroads Blvd, Waterloo, IA 50702 | good | 5 | 11 |
| 208 | Kwik Star 229 | Underground storage tank | 312416956 | 201400024 | 1717 San Marnan Rd East, Waterloo, IA 5070 | poor | 5 | 11 |
| 209 | Former Tandem Tire & Auto | Leaking USTs | 311258176 | 198609238 | 2915 Crossroads Blvd, Waterloo, IA 50702 | poor | 5 | 11 |
| 210 | Former Tandem Tire & Auto | Underground storage tank | 311258176 | 198609238 | 2915 Crossroads Blvd, Waterloo, IA 50702 | good | 5 | 11 |
| 211 | Waterloo Water Wks | Leaking USTs | 310604021 | 198600676 | 1950 Laporte Road, Waterloo, IA 50702 | good | 5 | 11 |
| 212 | Waterloo Water Wks | Underground storage tank | 310604021 | 198600676 | 1950 Laporte Road, Waterloo, IA 50702 | good | 5 | 11 |
| 213 | Jc Penney Co | Underground storage tank | 310442676 | 198710306 | 189 Crossroads Center, Waterloo, IA 50702 | good | 5 | 11 |
| 214 | Jc Penney Co | Leaking USTs | 310442676 | 198710306 | 189 Crossroads Center, Waterloo, IA 50702 | good | 5 | 11 |
| 218 | Sears | Leaking USTs | 311258121 | 198609175 | 2060 Crossroads Blvd, Waterloo, IA 50702 | good | 5 | 11 |
| 219 | Sears | Underground storage tank | 311258121 | 198609175 | 2060 Crossroads Boulevard, Waterloo, IA 50 | good | 5 | 11 |
| 229 | Turner Cemetery | Cemeteries | | | T83n, R16w, Sec. 2, Ne, Ne, Garwin, IA 512 | good | 2 | 8 |
| 230 | Prime Mart | Underground storage tank | 310547129 | 198601558 | 3535 Marigold Dr, Waterloo, IA 50702 | poor | 5 | 11 |
| 231 | Transportation Spill | Hazardous Materials Spill | 311593583 | 090206-DAH-1737 | 3905 Memory Ln, Waterloo, IA 50702 | poor | 1 | 7 |

¹ID's are hyperlinked to detailed contaminant source information where available. Click once to open the spreadsheet, then click again to follow the link.

²Estimated horizontal accuracy: < 25m. = good; 25m. to 50m. = fair; >50m. = poor

³Score range: 1 to 5, see Table 3 of the Iowa Source Water Protection and Assessment plan

⁴Sum of land use, capture zone, and aquifer susceptibility risk factors

Table 2a. Inventory of water wells not used in the Alluvial source water area.

Waterloo Public Water Supply (790074)

Phase I - Inventory of Wells

Aquifer: Alluvial Highly Susceptible (risk factor = 4)

| Map No. | Well ID ¹ | Well Owner | Well ID Source | Depth (ft.) | Date Drilled/ permitted | Well Location | Locational Accuracy ² |
|--|-------------------------|--|------------------------------|-------------|-------------------------|---------------------------------|----------------------------------|
| Capture zone: 2-year time of travel (risk factor = 3) | | | | | | | |
| 56 | 19026 | Rath | Permitted private wells | 220 | unkn | T89N, R13W, Sec. 15, NW, SW, SW | poor |
| 57 | 17398 | Unknown | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 15, NW, SW, NE | poor |
| 58 | 18490 | Unknown | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 15, NW, SW, NE | poor |
| 61 | 8641 | Waterloo, City Of | IGS well database | 204 | 5/7/1957 | T89N, R13W, 15, NW NE NW | poor |
| 62 | 2407610 | Waterloo Water Works | Public Water Supply well | 204 | 1/1/1957 | T89N, R13W, Sec. 15, NW, NE, NW | poor |
| 63 | 3917 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 204 | 5/7/1957 | T89N, R13W, Sec. 15, NW, NE, NW | good |
| 64 | 2410086 | Waterloo Water Works | Public Water Supply well | 190 | 1/1/1954 | T89N, R13W, Sec. 15, NW, NE, SW | poor |
| 65 | 43045 | Waterloo, City Of | IGS well database | 190 | 1/21/1954 | T89N, R13W, 15, NW NE SW | poor |
| 66 | 3914 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 190 | 1/21/1954 | T89N, R13W, Sec. 15, NW, NE, SW | good |
| 70 | 2173190 | Dolan, Michael | Private well tracking system | 42 | 12/4/2013 | T89N, R13W, Sec. 10, SE, SE, SW | good |
| 72 | 57704 | Cedar Bend School | IGS well database | 77 | 8/11/2003 | T89N, R13W, 15, SE NW NE NE SW | good |
| 74 | 43053 | Waterloo, City Of | IGS well database | 82 | 9/5/1931 | T89N, R13W, 15, SE NW NE | poor |
| 75 | 2095633 | School, Cedar Bend | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, NE | good |
| 76 | 2176813 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 77 | 2176814 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 78 | 2176812 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 79 | 2176811 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 80 | 3666 | Waterloo Comm Schools (Lincoln) () | Water Use Permit Wells | 164 | unkn | T89N, R13W, Sec. 15, SE, NW, NE | good |
| 81 | 2410201 | Waterloo Water Works | Public Water Supply well | 76 | 1/1/1937 | T89N, R13W, Sec. 15, SE, NE, NW | poor |
| 82 | 43041 | Waterloo, City Of | IGS well database | 76 | 4/17/1937 | T89N, R13W, 15, SE NE NW | poor |
| 83 | 4191 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 76 | 4/17/1937 | T89N, R13W, Sec. 15, SE, NE, NW | good |
| 86 | 43040 | Waterloo, City Of | IGS well database | 84 | 12/19/1931 | T89N, R13W, 15, SE NE SW | poor |
| 87 | 2410769 | Waterloo Water Works | Public Water Supply well | 84 | 1/1/1932 | T89N, R13W, Sec. 15, SE, NE, SW | poor |
| 88 | 43052 | Waterloo, City Of | IGS well database | 1408 | 1/1/1928 | T89N, R13W, 15, SE NE SW | poor |
| 91 | 43042 | Waterloo, City Of | IGS well database | 82 | 7/3/1939 | T89N, R13W, 15, SE NE NW | poor |
| 92 | 2411865 | Waterloo Water Works | Public Water Supply well | 82 | 1/1/1939 | T89N, R13W, Sec. 15, SE, NE, NW | poor |
| 93 | 4437 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 82 | 7/3/1939 | T89N, R13W, Sec. 15, SE, NE, NW | good |
| 94 | 2098185 | U. S. Army Reserve | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, NE, SE, NE | good |
| 97 | 2037204 | Miller, Don | Private well tracking system | 150 | 1/1/1999 | T89N, R13W, Sec. 14, NW, NW, NW | good |
| 98 | 2145234 | Bentley, Fred | Private well tracking system | 48 | 1/1/1948 | T89N, R13W, Sec. 11, SW, SW, NE | good |
| 99 | 43039 | Waterloo, City Of | IGS well database | 80 | 4/14/1930 | T89N, R13W, 15, SE NE NE | poor |
| 100 | 2409744 | Waterloo Water Works | Public Water Supply well | 80 | 1/1/1930 | T89N, R13W, Sec. 15, SE, NE, NE | poor |

| | | | | | | | |
|-----|-------------------------|--|------------------------------|------|-----------|---------------------------------|------|
| 101 | 3918 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 80 | 4/14/1930 | T89N, R13W, Sec. 15, SE, NE, NE | good |
| 102 | 27561 | Concrete Materials Co. | IGS well database | 125 | 10/1/1952 | T89N, R13W, 14, NW NW SW | poor |
| 103 | 43043 | Waterloo, City Of | IGS well database | 89 | 7/17/1941 | T89N, R13W, 15, SE NE SE | poor |
| 104 | 2407195 | Waterloo Water Works | Public Water Supply well | 89 | 1/1/1941 | T89N, R13W, Sec. 15, SE, NE, SE | poor |
| 105 | 4192 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 89 | 7/17/1941 | T89N, R13W, Sec. 15, SE, NE, SE | good |
| 107 | 2407519 | Waterloo Water Works | Public Water Supply well | 82 | 1/1/1948 | T89N, R13W, Sec. 15, SE, NE, SE | poor |
| 108 | 43044 | Waterloo, City Of | IGS well database | 82 | 6/30/1948 | T89N, R13W, 15, SE NE SE | poor |
| 109 | 4193 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 82 | 6/30/1948 | T89N, R13W, Sec. 15, SE, NE, SE | good |
| 111 | 23428 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 15, SE, SE, NE | poor |
| 112 | 23429 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 15, SE, SE, NE | poor |
| 113 | 23436 | Weyerhaeuser Paper, Company | Registered abandoned wells | 18 | unkn | T89N, R13W, Sec. 14, SW, NW, NW | poor |
| 116 | 16504 | Edwards, Ken | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, NW | poor |
| 117 | 43249 | Smith, Louis | Registered abandoned wells | 120 | unkn | T89N, R13W, Sec. 15, SE, SE, SE | poor |
| 120 | 14135 | Lehman, Pepsi-Cola Bot Co.La | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |
| 121 | 5388 | Lehman, Laverne | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |
| 122 | 5389 | Lehman, La Verne | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |
| 123 | 25676 | Pearce | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 14, NW, NE, NW | poor |
| 125 | 23427 | Weyerhaeuser Paper, Company | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 126 | 23422 | Weyerhaeuser Paper, Company | Registered abandoned wells | 28 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 127 | 23424 | Weyerhaeuser Paper, Company | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 128 | 23433 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 129 | 23431 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 130 | 23435 | Weyerhaeuser Paper, Company | Registered abandoned wells | 21 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 131 | 23434 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 132 | 23425 | Weyerhaeuser Paper, Company | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 133 | 23430 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 134 | 23432 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 135 | 23426 | Weyerhaeuser Paper, Company | Registered abandoned wells | 21 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 136 | 23423 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 137 | 87082 | Waterloo, City Of | IGS well database | 120 | 8/16/2012 | T89N, R13W, 23, NW NW NW | poor |
| 138 | 2166508 | Waterloo Leisure Services-City Of Waterloo | Private well tracking system | 120 | 8/16/2012 | T89N, R13W, Sec. 23, NW, NW, NW | good |
| 139 | 28569 | Shawver Well Company Inc () | Water Use Permit Wells | unkn | unkn | T89N, R13W, Sec. 23, NW, NW, SW | good |
| 140 | 43051 | Waterloo, City Of | IGS well database | 1409 | 1/1/1922 | T89N, R13W, 23, NW NW NW | poor |
| 141 | 75329 | Gallagher, Mike | IGS well database | 120 | 8/14/2012 | T89N, R13W, 22, NE NE SE | poor |
| 149 | 2136928 | Bishop, Jeremy | Private well tracking system | 52 | 1/1/1940 | T89N, R13W, Sec. 14, SW, SE, NW | good |
| 151 | 23740 | Tompkins, Roger | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, NW, SE, SE | poor |

Capture zone: 5-year time of travel (risk factor = 2)

| | | | | | | | |
|----|-----------------------|--|------------------------------|------|------|---------------------------------|------|
| 16 | 73480 | Berky, Richard | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 9, SW, SE, NE | poor |
| 17 | 25314 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | unkn | unkn | T89N, R13W, Sec. 16, NW, NE, SE | poor |
| 18 | 25315 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | unkn | unkn | T89N, R13W, Sec. 16, NW, NE, SE | poor |
| 19 | 25316 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 16 | unkn | T89N, R13W, Sec. 16, NW, NE, SE | poor |
| 21 | 73481 | Hosier, Max | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 16, NE, NW, NW | poor |

| | | | | | | | |
|-----|-------------------------|--|------------------------------|------|------------|---------------------------------|------|
| 22 | 25257 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 16 | unkn | T89N, R13W, Sec. 16, NE, NW, SW | poor |
| 23 | 25258 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | unkn | unkn | T89N, R13W, Sec. 16, NE, NW, SW | poor |
| 24 | 25256 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 16 | unkn | T89N, R13W, Sec. 16, NE, NW, SW | poor |
| 25 | 77421 | Martin Marietta Sand & Gravel Plant | IGS well database | 110 | 2/21/1979 | T89N, R13W, 9, SE NE SW | poor |
| 26 | 23808 | Severson | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 9, SE, NE, NE | poor |
| 28 | 25297 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 29 | 25263 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 16 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 30 | 25296 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 28 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 31 | 25304 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 32 | 25301 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 14 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 33 | 25264 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 14 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 34 | 25298 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 35 | 25303 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 36 | 25299 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | unkn | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 37 | 25302 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 38 | 25294 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 23 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 39 | 25300 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 40 | 25265 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 14 | unkn | T89N, R13W, Sec. 16, NE, SW, SE | poor |
| 41 | 25313 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | unkn | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 43 | 25310 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 19 | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 44 | 25312 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 18 | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 45 | 25309 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 46 | 25311 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 47 | 25308 | Anderson, Noel C C/O, City Of Waterloo | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 16, NE, NE, SE | poor |
| 48 | 57974 | Schwarzed, Arlene | Wells registered for testing | 180 | unkn | T89N, R13W, Sec. 10, SW, SW, SW | poor |
| 49 | 58293 | Cedar Bend School | IGS well database | 76 | 10/9/2003 | T89N, R13W, 10, SW SW SW | poor |
| 50 | 57446 | Cedar Bend School | IGS well database | 76 | 5/8/2003 | T89N, R13W, 10, SW SW SW | poor |
| 51 | 29207 | Roakes | Permitted private wells | 160 | unkn | T89N, R13W, Sec. 10, SW, SW, SW | poor |
| 53 | 32332 | Hydrite Chemical Company | IGS well database | 114 | 3/20/1990 | T89N, R13W, 10, NW SE NE NW | good |
| 54 | 28822 | Rampart Construction | Registered abandoned wells | 35 | unkn | T89N, R13W, Sec. 10, NW, SE, NE | poor |
| 59 | 2108343 | Stokes, W.C. | Private well tracking system | 22 | 1/1/1950 | T89N, R13W, Sec. 10, NE, SW, NW | good |
| 60 | 2110675 | Deery Sr., John | Private well tracking system | 64 | 1/1/1960 | T89N, R13W, Sec. 10, NE, NW, NW | good |
| 73 | 2202961 | Ostby, Adam & Lisa | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 84 | 2185029 | Ostby, Lisa | Private well tracking system | 150 | 1/1/1950 | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 85 | 2201308 | Ostby, Adam | Private well tracking system | 52 | 1/1/1970 | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 89 | 44621 | Westphal, Richard | IGS well database | 100 | 10/21/1997 | T89N, R13W, 11, SW NW NE SW | good |
| 95 | 57993 | Weber, Brian | Wells registered for testing | 20 | unkn | T89N, R13W, Sec. 11, SW, NW, SE | poor |
| 145 | 2200002 | Reuter, Julie | Private well tracking system | 90 | 1/1/1970 | T89N, R13W, Sec. 14, NE, NW, NW | good |
| 153 | 77422 | B. Schultz Company Building | IGS well database | 125 | 7/30/1980 | T89N, R13W, 14, NE SW NE | poor |
| 154 | 2139620 | Allen Memorial Hospital | Private well tracking system | 69 | 1/1/1950 | T89N, R13W, Sec. 14, NE, NE, NW | good |
| 155 | 73418 | Allen Memorial Hospital | IGS well database | 230 | unkn | T89N, R13W, 14, NE NE NW | poor |
| 156 | 32782 | Allen Memorial Hospital | IGS well database | 200 | 10/11/1991 | T89N, R13W, 14, NE NE NW NE | good |
| 160 | 20095 | Unknown | Permitted private wells | 200 | unkn | T89N, R13W, Sec. 14, NE, SE, NW | poor |
| 167 | 2132363 | Allen Memorial Hospital | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 14, NE, NE, NE | good |
| 168 | 5001 | Allen Memorial Hospital () | Water Use Permit Wells | 187 | 6/1/1991 | T89N, R13W, Sec. 14, NE, NE, NE | poor |

| | | | | | | | |
|-----|-------------------------|-----------------------------------|------------------------------|------|-----------|---------------------------------|------|
| 169 | 2119595 | Wellnitz, Hank | Private well tracking system | 78 | 1/1/1938 | T89N, R13W, Sec. 11, SE, SE, SE | good |
| 170 | 42901 | Elite Services, Inc. | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 14, SE, SW, NE | poor |
| 171 | 4888 | Allen Memorial Hospital () | Water Use Permit Wells | 176 | 2/1/1964 | T89N, R13W, Sec. 14, NE, NE, NE | poor |
| 172 | 42900 | Elite Services, Inc. | Registered abandoned wells | 17 | unkn | T89N, R13W, Sec. 14, SE, SW, NE | poor |
| 173 | 16378 | Allen Hospital | IGS well database | 175 | 4/1/1964 | T89N, R13W, 14, NE NE NE | poor |
| 174 | 42902 | Elite Services, Inc. | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 14, SE, SW, NE | poor |
| 175 | 42899 | Elite Services, Inc. | Registered abandoned wells | 16 | unkn | T89N, R13W, Sec. 14, SE, SW, NE | poor |
| 176 | 42898 | Elite Services, Inc. | Registered abandoned wells | 23 | unkn | T89N, R13W, Sec. 14, SE, SW, NE | poor |
| 177 | 2119594 | Wellnitz, Hank | Private well tracking system | 78 | 1/1/1938 | T89N, R13W, Sec. 11, SE, SE, SE | good |
| 179 | 368 | Waterloo Comm Schools (Gw Carver) | Water Use Permit Wells | 230 | 9/10/2008 | T89N, R13W, Sec. 14, NE, SE, SW | poor |
| 180 | 571 | Waterloo Comm Schools (Gw Carver) | Water Use Permit Wells | 230 | 9/10/2008 | T89N, R13W, Sec. 14, NE, SE, SW | poor |
| 181 | 2136835 | Waterloo Community Schools | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 14, NE, SE, SE | good |
| 182 | 2136832 | Waterloo Community Schools | Private well tracking system | 230 | 8/1/2008 | T89N, R13W, Sec. 14, NE, SE, SE | good |
| 183 | 73416 | Waterloo Schools | IGS well database | 230 | unkn | T89N, R13W, 14, NE SE NE | poor |

Capture zone: 10-year time of travel (risk factor = 1)

| | | | | | | | |
|----|-------------------------|-------------------------------------|------------------------------|------|------------|--------------------------------|------|
| 1 | 73497 | Larson, Carl | Wells registered for testing | 143 | unkn | T89N, R13W, Sec. 5, SE, SE, SE | poor |
| 2 | 18306 | George Wyeth State Park | IGS well database | 148 | 1/1/1966 | T89N, R13W, 8, NE SE NW | poor |
| 3 | 45625 | Gillilan, Tom | IGS well database | 220 | 12/31/1997 | T89N, R13W, 8, NE SE | poor |
| 4 | 2184 | Advanced Heat Treat Corp () | Water Use Permit Wells | unkn | unkn | T89N, R13W, Sec. 4, SW, NW, NE | poor |
| 5 | 2153248 | Advanced Heat Treat | Private well tracking system | 140 | 4/1/2011 | T89N, R13W, Sec. 4, SW, NW, SE | good |
| 6 | 2104767 | U S Army Reserve Center | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 4, SW, SW, NW | good |
| 7 | 2088585 | Armory, National Guard | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 4, SW, SW, NW | good |
| 8 | 73533 | Advanced Heat Treatment Corporation | IGS well database | 140 | 4/1/2011 | T89N, R13W, 4, SW NW SE | poor |
| 9 | 29728 | Control-O-Fax | IGS well database | 135 | 9/20/1986 | T89N, R13W, 4, SW SW SW | poor |
| 10 | 73495 | Droste, Jason | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 9, NW, NW, SW | poor |
| 11 | 29727 | Control-O-Fax | IGS well database | 135 | 5/20/1986 | T89N, R13W, 4, SW SW SE | poor |
| 12 | 73496 | Leymaster, Ralph | Wells registered for testing | 120 | unkn | T89N, R13W, Sec. 4, SW, SW, SE | poor |
| 13 | 20881 | Unknown | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 9, NW, NE, SW | poor |
| 14 | 32329 | Department Of Corrections | IGS well database | 100 | 12/1/1990 | T89N, R13W, 4, SW SE SE | poor |
| 15 | 73494 | Deboer, Virgil | Wells registered for testing | 100 | unkn | T89N, R13W, Sec. 9, SW, SW, SE | poor |
| 20 | 83899 | Farmstead Preschool | Wells registered for testing | 160 | unkn | T89N, R13W, Sec. 3, SW, NW, NW | poor |
| 27 | 56749 | Pt & B Irrigation | IGS well database | 170 | 10/11/2002 | T89N, R13W, 3, NW NE NE NE | good |
| 42 | 19421 | Unknown | Permitted private wells | 130 | unkn | T89N, R13W, Sec. 3, NE, NW, NE | poor |
| 52 | 59612 | Bisdorf, Mike | Wells registered for testing | 125 | 1999 | T89N, R13W, Sec. 3, SE, NW, NW | poor |
| 55 | 44363 | Ericson, Steve | Registered abandoned wells | 80 | unkn | T89N, R13W, Sec. 3, SE, NW, SE | poor |

Capture zone: surface runoff area (risk factor = 1)

| | | | | | | | |
|-----|-------------------------|---------------------------|------------------------------|-----|------------|---------------------------------|------|
| 67 | 2122462 | Cedar Bend Humane Society | Private well tracking system | 36 | 1/1/1944 | T89N, R13W, Sec. 10, NE, NE, NW | good |
| 68 | 2128253 | Heat Treat, Advanced | Private well tracking system | 160 | 7/20/2007 | T89N, R13W, Sec. 10, NE, NE, SE | good |
| 69 | 2130640 | Advanced Heat Treatment | Private well tracking system | 96 | 1/1/1950 | T89N, R13W, Sec. 10, NE, SE, NE | good |
| 71 | 2084061 | Soper, Ron | Private well tracking system | 170 | 10/11/2002 | T89N, R13W, Sec. 11, NW, SW, NW | good |
| 90 | 27559 | Concrete Materials Co. | IGS well database | 67 | 1/1/1953 | T89N, R13W, 11, NW SW SE NE | poor |
| 96 | 48485 | Kemp, James | IGS well database | 120 | 1/13/1999 | T89N, R13W, 11, SW NW NE NE | good |
| 106 | 35278 | Kemp, James | Registered abandoned wells | 70 | unkn | T89N, R13W, Sec. 11, SW, NE, NW | poor |
| 110 | 77310 | Koehler, C. A. | IGS well database | 110 | 9/19/1977 | T89N, R13W, 11, SW NE | poor |

| | | | | | | | |
|-----|-------------------------|-----------------------------|------------------------------|------|------------|---------------------------------|------|
| 114 | 2089348 | Clark, Dennis | Private well tracking system | 89 | 2/6/2003 | T89N, R13W, Sec. 11, SW, NE, NE | good |
| 115 | 2089426 | Clark, Dennis | Private well tracking system | 89 | 1/1/1950 | T89N, R13W, Sec. 11, SW, NE, NE | good |
| 118 | 57091 | Clark, Dennis | IGS well database | 135 | 2/6/2003 | T89N, R13W, 11, SW NE NE SW | good |
| 119 | 2086041 | Smith, William | Private well tracking system | 100 | 1/1/1950 | T89N, R13W, Sec. 11, SW, NE, NE | good |
| 124 | 28044 | Edwards | Permitted private wells | 120 | unkn | T89N, R13W, Sec. 2, SE, NE, NW | poor |
| 142 | 2177949 | Neff, Nate | Private well tracking system | 154 | 11/16/2014 | T89N, R13W, Sec. 2, SE, SE, SE | good |
| 143 | 79268 | Neff, Nate | IGS well database | 154 | 11/16/2014 | T89N, R13W, 2, SE SE SE | poor |
| 144 | 57975 | Patten, Tami | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 2, SE, SE, NE | poor |
| 146 | 57999 | Hill, Steve | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 2, SE, SE, SE | poor |
| 147 | 57996 | Ledtje, Alan | Wells registered for testing | 20 | unkn | T89N, R13W, Sec. 2, SE, SE, SE | poor |
| 148 | 57998 | Unknown | Wells registered for testing | 20 | 1997 | T89N, R13W, Sec. 2, SE, SE, SE | poor |
| 150 | 57997 | Ledtje, Royal | Wells registered for testing | 20 | 1988 | T89N, R13W, Sec. 2, SE, SE, SE | poor |
| 152 | 2145011 | Cunha, Jane | Private well tracking system | 80 | 1/1/1939 | T89N, R13W, Sec. 11, NE, NE, SE | good |
| 157 | 73918 | Allen College | IGS well database | 178 | 6/24/2011 | T89N, R13W, 11, SE SE NE | good |
| 158 | 2155018 | Allen College | Private well tracking system | 178 | 7/1/2011 | T89N, R13W, Sec. 11, SE, SE, NE | good |
| 159 | 2182385 | Bauer, Mike | Private well tracking system | 100 | 1/1/1940 | T89N, R13W, Sec. 12, NW, SW, SW | good |
| 161 | 73917 | Allen College | IGS well database | 178 | 6/20/2011 | T89N, R13W, 11, SE SE NE | good |
| 162 | 28515 | Allen College (Terry Flynn) | Water Use Permit Wells | 178 | 7/2/2011 | T89N, R13W, Sec. 11, SE, SE, NE | poor |
| 163 | 2155017 | Allen College | Private well tracking system | 178 | 6/24/2011 | T89N, R13W, Sec. 11, SE, SE, NE | good |
| 164 | 28516 | Allen College (Terry Flynn) | Water Use Permit Wells | 178 | 6/24/2011 | T89N, R13W, Sec. 11, SE, SE, NE | poor |
| 165 | 8945 | Hospital, Allen Mem. | Registered abandoned wells | 66 | unkn | T89N, R13W, Sec. 11, SE, SE, NE | poor |
| 166 | 2130592 | Luloff, Teresa | Private well tracking system | 80 | 1/1/1950 | T89N, R13W, Sec. 12, SW, NW, NW | good |
| 178 | 4020 | Mcfarland, K.A. | IGS well database | 112 | 5/27/1949 | T89N, R13W, 12, SW SW NW | good |

¹Well id's are hyperlinked to detailed well information where available.

Click once to open the spreadsheet, then click again to follow the link.

²Estimated horizontal accuracy: < 25m. = good; 25m. to 50m. = fair; >50m. = poor

Table 2b. Inventory of water wells not used in the Silurian-Devonian source water area.

Waterloo Public Water Supply (790074)

Phase I - Inventory of Wells

Aquifer: Silurian-Devonian Highly Susceptible (*risk factor = 4*)

| Map No. | Well ID ¹ | Well Owner | Well ID Source | Depth (ft.) | Date Drilled/ permitted | Well Location | Locational Accuracy ² |
|---------|----------------------|------------|----------------|-------------|-------------------------|---------------|----------------------------------|
|---------|----------------------|------------|----------------|-------------|-------------------------|---------------|----------------------------------|

Capture zone: modified karst - high (*risk factor = 3*)

| | | | | | | | |
|-----|-------------------------|--|------------------------------|------|------------|---------------------------------|------|
| 63 | 22668 | Fowlkes | Permitted private wells | 240 | unkn | T89N, R13W, Sec. 32, NW, SW, SE | poor |
| 69 | 78083 | Lichty, B. J. | IGS well database | 115 | 7/28/1971 | T89N, R13W, 32, SW | poor |
| 71 | 77423 | Stauffacher, Bob | IGS well database | 107 | 3/22/1974 | T89N, R13W, 32, SW SW | poor |
| 85 | 2185028 | Farrell, Mike | Private well tracking system | 150 | 1/1/1950 | T89N, R13W, Sec. 32, NE, SW, NE | good |
| 86 | 2139489 | Anfonson, Larry | Private well tracking system | 80 | 11/15/2008 | T89N, R13W, Sec. 32, NE, SW, NE | good |
| 88 | 2124764 | Oesterle, James | Private well tracking system | 100 | 1/1/1960 | T88N, R13W, Sec. 7, NW, NW, NE | good |
| 89 | 56290 | Waterloo, City Of | IGS well database | 136 | 5/22/1969 | T88N, R13W, 6, NE NW NW NE SW | good |
| 92 | 57974 | Schwarzed, Arlene | Wells registered for testing | 180 | unkn | T89N, R13W, Sec. 10, SW, SW, SW | poor |
| 93 | 58293 | Cedar Bend School | IGS well database | 76 | 10/9/2003 | T89N, R13W, 10, SW SW SW | poor |
| 94 | 57446 | Cedar Bend School | IGS well database | 76 | 5/8/2003 | T89N, R13W, 10, SW SW SW | poor |
| 95 | 29207 | Roakes | Permitted private wells | 160 | unkn | T89N, R13W, Sec. 10, SW, SW, SW | poor |
| 96 | 18644 | Kitner, Ed H. | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 6, SW, NE, NE | poor |
| 97 | 18646 | Baugus, Carolyn | Registered abandoned wells | 40 | unkn | T88N, R13W, Sec. 6, NW, SE, SE | poor |
| 98 | 57049 | Calton, David | IGS well database | 165 | 2/11/2003 | T89N, R13W, 28, SW NW NE NE | good |
| 102 | 2195476 | Love'S Travel Stop & Country Store | Private well tracking system | unkn | unkn | T88N, R13W, Sec. 6, SE, NW, NW | good |
| 103 | 32332 | Hydrite Chemical Company | IGS well database | 114 | 3/20/1990 | T89N, R13W, 10, NW SE NE NW | good |
| 104 | 86799 | Love'S Travel Stop & Country Stores | IGS well database | 54 | 6/1/2017 | T88N, R13W, 6, SE NW NW | poor |
| 108 | 28822 | Rampart Construction | Registered abandoned wells | 35 | unkn | T89N, R13W, Sec. 10, NW, SE, NE | poor |
| 109 | 28528 | Roe | Permitted private wells | 120 | unkn | T89N, R13W, Sec. 32, SE, SE, SW | poor |
| 110 | 77077 | Russell, R. E. | IGS well database | 205 | 7/16/1952 | T88N, R13W, 6, NE NE | poor |
| 111 | 2108343 | Stokes, W.C. | Private well tracking system | 22 | 1/1/1950 | T89N, R13W, Sec. 10, NE, SW, NW | good |
| 112 | 8641 | Waterloo, City Of | IGS well database | 204 | 5/7/1957 | T89N, R13W, 15, NW NE NW | poor |
| 113 | 2407610 | Waterloo Water Works | Public Water Supply well | 204 | 1/1/1957 | T89N, R13W, Sec. 15, NW, NE, NW | poor |
| 115 | 3917 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 204 | 5/7/1957 | T89N, R13W, Sec. 15, NW, NE, NW | good |
| 116 | 52098 | Green, Karen | Wells registered for testing | 260 | 1998 | T89N, R13W, Sec. 28, SW, NE, NE | poor |
| 126 | 2410086 | Waterloo Water Works | Public Water Supply well | 190 | 1/1/1954 | T89N, R13W, Sec. 15, NW, NE, SW | poor |
| 127 | 43045 | Waterloo, City Of | IGS well database | 190 | 1/21/1954 | T89N, R13W, 15, NW NE SW | poor |
| 131 | 3914 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 190 | 1/21/1954 | T89N, R13W, Sec. 15, NW, NE, SW | good |
| 136 | 71778 | Tansey, James | Wells registered for testing | unkn | 1972 | T89N, R13W, Sec. 28, SW, SE, NE | poor |
| 137 | 71784 | Ayres | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 28, SW, SE, NE | poor |
| 138 | 21213 | Firstar Bank, Cedar Falls | Registered abandoned wells | 11 | unkn | T89N, R13W, Sec. 21, SE, SE, NE | poor |
| 139 | 21211 | Firstar Bank, Cedar Falls | Registered abandoned wells | 6 | unkn | T89N, R13W, Sec. 21, SE, SE, NE | poor |
| 140 | 14137 | Shirey, Craig | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 22, SW, NW, NW | poor |

| | | | | | | | |
|-----|-------------------------|--|------------------------------|------|------------|---------------------------------|------|
| 141 | 14139 | Shirey, Craig | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 22, SW, NW, NW | poor |
| 142 | 5392 | Shirey, Craig | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 22, SW, NW, NW | poor |
| 143 | 2173190 | Dolan, Michael | Private well tracking system | 42 | 12/4/2013 | T89N, R13W, Sec. 10, SE, SE, SW | good |
| 144 | 2201585 | Barnett, Robert | Private well tracking system | 25 | 1/1/1970 | T89N, R13W, Sec. 27, NW, SW, NW | good |
| 145 | 57704 | Cedar Bend School | IGS well database | 77 | 8/11/2003 | T89N, R13W, 15, SE NW NE NE SW | good |
| 147 | 43053 | Waterloo, City Of | IGS well database | 82 | 9/5/1931 | T89N, R13W, 15, SE NW NE | poor |
| 148 | 2095633 | School, Cedar Bend | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, NE | good |
| 149 | 2176813 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 150 | 2176814 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 151 | 2176812 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 152 | 2176811 | Ricklef'S Excavating Llc | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, SE, NW, SE | good |
| 153 | 3666 | Waterloo Comm Schools (Lincoln) () | Water Use Permit Wells | 164 | unkn | T89N, R13W, Sec. 15, SE, NW, NE | good |
| 154 | 24955 | Phillips | Permitted private wells | 65 | unkn | T89N, R13W, Sec. 22, SW, NE, NW | poor |
| 155 | 24954 | Adams | Permitted private wells | 65 | unkn | T89N, R13W, Sec. 22, SW, NE, SW | poor |
| 156 | 27079 | Hileman, Jim | Permitted private wells | 80 | 2/26/1992 | T89N, R13W, Sec. 22, SW, NE, NW | poor |
| 157 | 2410201 | Waterloo Water Works | Public Water Supply well | 76 | 1/1/1937 | T89N, R13W, Sec. 15, SE, NE, NW | poor |
| 158 | 43041 | Waterloo, City Of | IGS well database | 76 | 4/17/1937 | T89N, R13W, 15, SE NE NW | poor |
| 159 | 4191 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 76 | 4/17/1937 | T89N, R13W, Sec. 15, SE, NE, NW | good |
| 162 | 43040 | Waterloo, City Of | IGS well database | 84 | 12/19/1931 | T89N, R13W, 15, SE NE SW | poor |
| 163 | 2410769 | Waterloo Water Works | Public Water Supply well | 84 | 1/1/1932 | T89N, R13W, Sec. 15, SE, NE, SW | poor |
| 164 | 43052 | Waterloo, City Of | IGS well database | 1408 | 1/1/1928 | T89N, R13W, 15, SE NE SW | poor |
| 165 | 43042 | Waterloo, City Of | IGS well database | 82 | 7/3/1939 | T89N, R13W, 15, SE NE NW | poor |
| 166 | 2411865 | Waterloo Water Works | Public Water Supply well | 82 | 1/1/1939 | T89N, R13W, Sec. 15, SE, NE, NW | poor |
| 167 | 4437 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 82 | 7/3/1939 | T89N, R13W, Sec. 15, SE, NE, NW | good |
| 168 | 2157252 | Habitat For Humanity | Private well tracking system | 20 | 1/1/1960 | T89N, R13W, Sec. 22, SW, SE, NE | good |
| 169 | 2098185 | U. S. Army Reserve | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 15, NE, SE, NE | good |
| 171 | 2037204 | Miller, Don | Private well tracking system | 150 | 1/1/1999 | T89N, R13W, Sec. 14, NW, NW, NW | good |
| 172 | 2145234 | Bentley, Fred | Private well tracking system | 48 | 1/1/1948 | T89N, R13W, Sec. 11, SW, SW, NE | good |
| 173 | 43039 | Waterloo, City Of | IGS well database | 80 | 4/14/1930 | T89N, R13W, 15, SE NE NE | poor |
| 174 | 2409744 | Waterloo Water Works | Public Water Supply well | 80 | 1/1/1930 | T89N, R13W, Sec. 15, SE, NE, NE | poor |
| 175 | 3918 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 80 | 4/14/1930 | T89N, R13W, Sec. 15, SE, NE, NE | good |
| 176 | 27561 | Concrete Materials Co. | IGS well database | 125 | 10/1/1952 | T89N, R13W, 14, NW NW SW | poor |
| 177 | 43043 | Waterloo, City Of | IGS well database | 89 | 7/17/1941 | T89N, R13W, 15, SE NE SE | poor |
| 178 | 2407195 | Waterloo Water Works | Public Water Supply well | 89 | 1/1/1941 | T89N, R13W, Sec. 15, SE, NE, SE | poor |
| 179 | 4192 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 89 | 7/17/1941 | T89N, R13W, Sec. 15, SE, NE, SE | good |
| 180 | 2407519 | Waterloo Water Works | Public Water Supply well | 82 | 1/1/1948 | T89N, R13W, Sec. 15, SE, NE, SE | poor |
| 181 | 43044 | Waterloo, City Of | IGS well database | 82 | 6/30/1948 | T89N, R13W, 15, SE NE SE | poor |
| 182 | 4193 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 82 | 6/30/1948 | T89N, R13W, Sec. 15, SE, NE, SE | good |
| 183 | 23428 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 15, SE, SE, NE | poor |
| 184 | 23429 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 15, SE, SE, NE | poor |
| 185 | 23436 | Weyerhaeuser Paper, Company | Registered abandoned wells | 18 | unkn | T89N, R13W, Sec. 14, SW, NW, NW | poor |
| 186 | 16504 | Edwards, Ken | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, NW | poor |
| 187 | 43249 | Smith, Louis | Registered abandoned wells | 120 | unkn | T89N, R13W, Sec. 15, SE, SE, SE | poor |
| 188 | 14135 | Lehman, Pepsi-Cola Bot Co.La | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |
| 189 | 5388 | Lehman, Laverne | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |

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|-----|-------------------------|-------------------------------------|------------------------------|------|------------|---------------------------------|------|
| 190 | 5389 | Lehman, La Verne | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, NW, SW | poor |
| 191 | 25676 | Pearce | Permitted private wells | 150 | unkn | T89N, R13W, Sec. 14, NW, NE, NW | poor |
| 192 | 23427 | Weyerhaeuser Paper, Company | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 193 | 23422 | Weyerhaeuser Paper, Company | Registered abandoned wells | 28 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 194 | 23424 | Weyerhaeuser Paper, Company | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 195 | 23433 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 196 | 23431 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 197 | 23435 | Weyerhaeuser Paper, Company | Registered abandoned wells | 21 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 198 | 23434 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 199 | 23425 | Weyerhaeuser Paper, Company | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 200 | 23430 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 201 | 23432 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 202 | 23426 | Weyerhaeuser Paper, Company | Registered abandoned wells | 21 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 203 | 23423 | Weyerhaeuser Paper, Company | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 14, SW, SW, NW | poor |
| 282 | 57990 | Gulick, Kathy | Wells registered for testing | 100 | 1993 | T89N, R13W, Sec. 36, NE, SE, SE | poor |
| 283 | 57986 | Krieg, Jeff | Wells registered for testing | 100 | unkn | T89N, R13W, Sec. 36, NE, SE, SE | poor |
| 284 | 57985 | Shaner, Ann | Wells registered for testing | 20 | 1960 | T89N, R13W, Sec. 36, NE, SE, SE | poor |
| 285 | 36821 | Annis Petroleum | Registered abandoned wells | 40 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 286 | 36820 | Annis Petroleum | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 287 | 36818 | Annis Petroleum | Registered abandoned wells | 23 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 288 | 36813 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 289 | 36817 | Annis Petroleum | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 290 | 36814 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 291 | 36822 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 292 | 36808 | Annis Petroleum | Registered abandoned wells | 19 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 293 | 36819 | Annis Petroleum | Registered abandoned wells | 21 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 294 | 36812 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 295 | 36810 | Annis Petroleum | Registered abandoned wells | 24 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 296 | 36816 | Annis Petroleum | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 297 | 36815 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 298 | 36823 | Annis Petroleum | Registered abandoned wells | 25 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 299 | 36811 | Annis Petroleum | Registered abandoned wells | 22 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 300 | 36809 | Annis Petroleum | Registered abandoned wells | 26 | unkn | T89N, R13W, Sec. 36, SE, SE, SW | poor |
| 301 | 78060 | Brinker, Floyd | IGS well database | 60 | 10/23/1975 | T89N, R13W, 36, SE | poor |
| 305 | 2139795 | Long, Kevin | Private well tracking system | 20 | 1/1/1954 | T89N, R12W, Sec. 31, SW, NW, SW | good |
| 318 | 2139989 | Weekley, Cindy | Private well tracking system | 20 | 1/1/1937 | T89N, R12W, Sec. 31, SW, SW, SW | good |
| 319 | 14119 | John Deere Engine Works | Registered abandoned wells | 20 | unkn | T88N, R13W, Sec. 1, NW, NW, SE | poor |
| 321 | 29879 | Aspro | IGS well database | 80 | 12/17/1984 | T88N, R13W, 1, NW SW NE SW | good |
| 322 | 77278 | Aspro | IGS well database | 113 | 9/24/1979 | T88N, R13W, 1, NW SW | poor |
| 323 | 77168 | Sewage Disposal Plant | IGS well database | 290 | 4/13/1950 | T89N, R12W, 31, SE SW | poor |
| 324 | 28527 | Story Construction Co (Troy Turner) | Water Use Permit Wells | unkn | unkn | T89N, R12W, Sec. 31, SE, SW, SW | good |
| 325 | 2750 | Waterloo, City Of | IGS well database | 200 | 2/21/1949 | T89N, R12W, 31, SE SW NE NW SE | poor |
| 326 | 3891 | Rick L Kiefer | Water Use Permit Wells | 175 | unkn | T88N, R12W, Sec. 7, SW, SW, NW | poor |
| 327 | 54 | Unknown | Permitted private wells | 150 | unkn | T88N, R12W, Sec. 7, SW, SW, SW | poor |
| 328 | 84461 | Hansen, Randy | IGS well database | 78 | 10/26/2016 | T88N, R12W, 7, SW NE SW | poor |

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|-----|-------------------------|--|------------------------------|------|------------|---------------------------------|------|
| 329 | 2191397 | Hansen, Randy | Private well tracking system | 78 | 10/26/2016 | T88N, R12W, Sec. 7, SW, NE, SW | good |
| 330 | 2193197 | Elliott, Mike | Private well tracking system | 135 | 1/1/1970 | T88N, R12W, Sec. 7, NW, NE, SE | good |
| 333 | 46613 | Elliott, Merle | IGS well database | 135 | 7/27/1998 | T88N, R12W, 7, SE NW NW NW | good |
| 334 | 29882 | Bellows, Roger | IGS well database | 40 | 5/22/1986 | T88N, R12W, 7, SW SE NE NE | good |
| 336 | 57350 | Bellows, Ray | IGS well database | 80 | 3/13/2003 | T88N, R12W, 7, SW SE NE SE | good |
| 337 | 2187311 | Butler, Jim | Private well tracking system | 21 | 1/1/1900 | T88N, R12W, Sec. 7, SE, SW, NW | good |
| 338 | 33705 | Elliot, Merle | Registered abandoned wells | 40 | unkn | T88N, R12W, Sec. 7, NE, NE, NW | poor |
| 339 | 33704 | Elliot, Merle | Registered abandoned wells | 40 | unkn | T88N, R12W, Sec. 7, NE, NE, NW | poor |
| 342 | 2182260 | Lumsden, Stephen | Private well tracking system | 34 | 1/1/1950 | T88N, R12W, Sec. 18, NE, NW, NE | good |
| 343 | 2201151 | Gott, Elizabeth | Private well tracking system | 90 | 1/1/1970 | T88N, R12W, Sec. 8, SW, NW, NW | good |
| 344 | 18383 | Lafromboise, Jean | Wells registered for testing | unkn | 1950 | T88N, R12W, Sec. 8, SW, NW, NW | poor |
| 345 | 18382 | Dix, Lola | Wells registered for testing | 100 | 1990 | T88N, R12W, Sec. 8, SW, NW, NW | poor |
| 346 | 18380 | Penn, David | Wells registered for testing | unkn | 1945 | T88N, R12W, Sec. 8, SW, NW, NW | poor |
| 347 | 20108 | Dix | Permitted private wells | 130 | 1/9/1990 | T88N, R12W, Sec. 8, NW, SW, NE | poor |
| 348 | 18381 | Dix, Lola | Wells registered for testing | 100 | 1990 | T88N, R12W, Sec. 8, SW, NW, NW | poor |
| 349 | 2191772 | Binker, Craig | Private well tracking system | 25 | 1/1/2008 | T88N, R12W, Sec. 8, SW, NW, NW | good |
| 350 | 4272 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 145 | 1/1/1971 | T88N, R12W, Sec. 8, SW, SW, SW | good |
| 351 | 43047 | Waterloo, City Of | IGS well database | 145 | 11/2/1971 | T88N, R12W, 8, SW SW SW | poor |
| 352 | 2410889 | Waterloo Water Works | Public Water Supply well | 145 | 1/1/1971 | T88N, R12W, Sec. 8, SW, SW, SW | poor |
| 353 | 77345 | Board Of Water Works Trustees | IGS well database | 145 | 11/2/1971 | T88N, R12W, 8, SW SW | poor |
| 354 | 2139808 | Penn, David | Private well tracking system | 80 | 1/1/1950 | T88N, R12W, Sec. 8, SW, NW, SE | good |
| 355 | 2187665 | Clemen, Corinna | Private well tracking system | 100 | 1/1/1900 | T88N, R12W, Sec. 18, NE, SE, NE | good |
| 356 | 51677 | Sabus, Dave | IGS well database | 85 | 8/18/1999 | T88N, R12W, 8, SW NW SE SE | good |
| 357 | 78088 | Beck, Jack | IGS well database | 95 | 11/11/1975 | T88N, R12W, 17, NW NW | poor |
| 359 | 23168 | Matthias Jr., E.H. | IGS well database | 105 | 9/21/1971 | T88N, R12W, 17, NW SW | poor |
| 367 | 2197635 | Derifield, Ila | Private well tracking system | 80 | 1/1/1970 | T88N, R12W, Sec. 17, NW, NE, SW | good |
| 368 | 2192236 | Nicol, Keith | Private well tracking system | 80 | 1/1/1990 | T88N, R12W, Sec. 8, SW, SE, SE | good |
| 369 | 2139839 | Carpenter, Blaine | Private well tracking system | 20 | 1/1/2008 | T88N, R12W, Sec. 8, SE, SW, NW | good |
| 370 | 2139755 | Figgy, Sandra | Private well tracking system | 80 | 1/1/1970 | T88N, R12W, Sec. 17, NW, NE, NE | good |
| 371 | 29881 | Litteaur, Dick | IGS well database | 50 | 7/16/1985 | T88N, R12W, 8, SE SW SW NW | good |
| 372 | 2139840 | Carpenter, Blaine | Private well tracking system | 20 | 1/1/2007 | T88N, R12W, Sec. 8, SE, SW, NW | good |
| 373 | 2139968 | Rehlander, Kim | Private well tracking system | 20 | 1/1/2008 | T88N, R12W, Sec. 8, SE, SW, SW | good |
| 374 | 38279 | Boswell, George | IGS well database | 60 | 4/4/1996 | T88N, R12W, 17, NW NE NE NE | good |
| 375 | 2190400 | Hansen, Spring | Private well tracking system | 18 | 1/1/1980 | T88N, R12W, Sec. 8, SE, SW, SW | good |
| 376 | 2134020 | Ryken, Michael | Private well tracking system | 22 | 1/1/1958 | T88N, R12W, Sec. 17, NW, NE, SE | good |
| 377 | 2132875 | Ryken, Mike | Private well tracking system | 95 | 1/18/2008 | T88N, R12W, Sec. 17, NW, NE, SE | good |
| 378 | 50713 | Wilson, Denten | IGS well database | 96 | 9/16/1999 | T88N, R12W, 17, NE NW NW NW | good |
| 379 | 64890 | Mike Ryken | IGS well database | 95 | 1/18/2008 | T88N, R12W, 17, NW NE SE NE | good |
| 380 | 2102168 | Steimel, Duane | Private well tracking system | 25 | 1/1/1952 | T88N, R12W, Sec. 17, NE, NW, SW | good |
| 381 | 2192280 | Dallenbach, Jane | Private well tracking system | 80 | 1/1/1970 | T88N, R12W, Sec. 17, NE, NW, SW | good |
| 382 | 25678 | Wilson | Permitted private wells | 120 | unkn | T88N, R12W, Sec. 17, NE, NW, NW | poor |
| 383 | 2191998 | Shannon, Jerry | Private well tracking system | 40 | 1/1/1994 | T88N, R12W, Sec. 17, NE, SW, NW | good |
| 384 | 49719 | Gearhart, Stephen V. | IGS well database | 110 | 3/5/1997 | T88N, R12W, 17, SW SE NW NE | poor |
| 385 | 2104385 | Huck, Alma | Private well tracking system | 100 | 1/1/1960 | T88N, R12W, Sec. 17, NE, SW, NW | good |
| 386 | 42964 | Municipal Pipe | IGS well database | 110 | 3/5/1997 | T88N, R12W, 17, SW SE NE NW | good |

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|-----|-------------------------|-------------------|------------------------------|------|-----------|---------------------------------|------|
| 387 | 2169554 | Harken, Keith | Private well tracking system | 60 | 1/1/1950 | T88N, R12W, Sec. 17, NE, SW, SW | good |
| 388 | 19864 | Cross | Permitted private wells | 80 | unkn | T88N, R12W, Sec. 17, NE, SW, SW | poor |
| 389 | 22522 | Elliot | Permitted private wells | 120 | 7/24/1998 | T88N, R12W, Sec. 17, NE, SW, SW | poor |
| 390 | 2146269 | Sarin, Vin | Private well tracking system | 20 | 1/1/2008 | T88N, R12W, Sec. 17, NE, SW, SE | good |
| 391 | 60949 | Shannon, Lucille | Wells registered for testing | unkn | unkn | T88N, R12W, Sec. 17, NE, SW, SE | poor |
| 392 | 77298 | Reisinger, Marvin | IGS well database | 95 | 1/5/1976 | T88N, R12W, 17, NE SW | poor |
| 393 | 50439 | Adams, Sally | IGS well database | 85 | 8/8/1999 | T88N, R12W, 17, NE SW SE NE | good |
| 394 | 2139642 | Augustson, Karen | Private well tracking system | 40 | 1/1/1949 | T88N, R12W, Sec. 17, NE, SW, SE | good |
| 395 | 50440 | Phillips, Brad | IGS well database | 85 | 8/8/1999 | T88N, R12W, 17, NE SE SW NW | good |
| 396 | 2145001 | Adams, Sally | Private well tracking system | 85 | 8/8/1999 | T88N, R12W, Sec. 17, NE, SE, SW | good |
| 397 | 74999 | Wilson, Jackie | Wells registered for testing | 96 | 1999 | T88N, R12W, Sec. 17, NE, SE, SW | poor |

Capture zone: modified karst - medium (*risk factor = 2*)

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|----|-------------------------|---|------------------------------|------|------------|---------------------------------|------|
| 1 | 77300 | John Deere Engine Plant | IGS well database | 275 | 7/18/1975 | T88N, R14W, 1, NW NW | poor |
| 2 | 29260 | John Deere Engine Works () | Water Use Permit Wells | 266 | 6/16/2015 | T88N, R14W, Sec. 1, NW, NW, SW | poor |
| 3 | 5653 | John Deere Engine Works () | Water Use Permit Wells | 275 | unkn | T88N, R14W, Sec. 1, NW, NW, NW | good |
| 4 | 5373 | Engine Works, John Deere | Registered abandoned wells | 20 | unkn | T88N, R14W, Sec. 1, NW, NW, NW | poor |
| 5 | 5654 | John Deere Engine Works () | Water Use Permit Wells | 275 | unkn | T88N, R14W, Sec. 1, NW, NW, NE | good |
| 6 | 81064 | John Deere | IGS well database | 250 | 7/31/2015 | T88N, R14W, 1, NW NE NW | poor |
| 7 | 2182028 | John Deere Engine Works | Private well tracking system | 250 | 7/1/2015 | T88N, R14W, Sec. 1, NW, NE, NW | good |
| 8 | 38480 | John Deere Engine Works | IGS well database | 275 | 6/30/1975 | T88N, R14W, 1, NW NW SE SE | poor |
| 9 | 25278 | John Deere | IGS well database | 275 | 9/11/1975 | T88N, R14W, 1, NW NE NW | poor |
| 10 | 25271 | John Deere | IGS well database | 275 | 7/18/1975 | T88N, R14W, 1, NW NE NE | poor |
| 11 | 43678 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 23 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 12 | 43675 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 19 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 13 | 43681 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 19 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 14 | 43677 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 19 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 15 | 43684 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 19 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 16 | 43679 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 18 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 17 | 43682 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 23 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 18 | 43683 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 24 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 19 | 43680 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 25 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 20 | 43676 | John Deere Engine Works, Bonita Berry | Registered abandoned wells | 23 | unkn | T88N, R14W, Sec. 1, NW, NE, NE | poor |
| 21 | 77346 | John Deere Engine Plant | IGS well database | 275 | 6/30/1975 | T88N, R14W, 1, NE NW | poor |
| 22 | 28576 | Waterloo Waste Treatment | Permitted private wells | 22 | unkn | T89N, R13W, Sec. 31, SE, NW, SW | poor |
| 23 | 76504 | U.S. Cellular | Wells registered for testing | 195 | 2000 | T89N, R13W, Sec. 31, SE, SW, NW | poor |
| 24 | 27135 | Us Cellular | Permitted private wells | 175 | unkn | T89N, R13W, Sec. 31, SE, SW, NW | poor |
| 25 | 52219 | Us Cellular | IGS well database | 195 | 7/14/2000 | T89N, R13W, 31, SE SW NW | poor |
| 26 | 2002190 | Us Cellular | Private well tracking system | 195 | 7/14/2000 | T89N, R13W, Sec. 31, SE, SW, NW | good |
| 27 | 75462 | U.S. Cellular | Wells registered for testing | 195 | 2000 | T89N, R13W, Sec. 31, SE, SW, NW | poor |
| 28 | 38481 | John Deere Product Eng.Center | IGS well database | 275 | 1/1/1973 | T89N, R13W, 31, SE NW NE NW NE | poor |
| 29 | 3592 | John Deere Product Engineering Center () | Water Use Permit Wells | 280 | unkn | T89N, R13W, Sec. 31, SE, NW, NE | poor |
| 30 | 2153249 | John Deere And Company - Pec | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 31, SE, NW, NE | good |
| 31 | 3952 | John Deere Product Engineering Center () | Water Use Permit Wells | 280 | unkn | T89N, R13W, Sec. 31, SE, NW, NE | poor |
| 32 | 19068 | John Deere Research Center | IGS well database | 215 | 10/17/1966 | T89N, R13W, 31, SE NW NE | poor |

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|----|-------------------------|--|------------------------------|------|------------|---------------------------------|------|
| 33 | 555 | Koble, Don | Permitted private wells | 25 | unkn | T89N, R13W, Sec. 31, SE, NW, SE | poor |
| 34 | 558 | Koble, Don | Permitted private wells | 25 | unkn | T89N, R13W, Sec. 31, SE, NW, SE | poor |
| 35 | 71773 | Christiansen, Richard | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 31, SE, NW, SE | poor |
| 36 | 556 | Koble, Don | Permitted private wells | 25 | unkn | T89N, R13W, Sec. 31, SE, NW, SE | poor |
| 37 | 557 | Koble, Don | Permitted private wells | 25 | unkn | T89N, R13W, Sec. 31, SE, NW, SE | poor |
| 38 | 2200575 | Miller, Wesley | Private well tracking system | 100 | 1/1/1970 | T88N, R14W, Sec. 1, SW, NE, NE | good |
| 39 | 22549 | John Deere Supervisor'S Club | IGS well database | 215 | 5/3/1970 | T88N, R14W, 1, NE SW NW | poor |
| 40 | 2410243 | John Deere Co Supervisor Club | Public Water Supply well | 200 | 1/1/1970 | T88N, R14W, Sec. 1, NE, SW, NW | poor |
| 41 | 77030 | Campbell, F. C. | IGS well database | 160 | 1/15/1948 | T88N, R14W, 1, SW NE | poor |
| 42 | 7447 | John Deere Tractor Works | IGS well database | 278 | 7/20/1955 | T89N, R13W, 31, SE NE NW | poor |
| 43 | 71775 | Schmidt, Jeanne | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 31, NE, NE, SE | poor |
| 44 | 77324 | John Deere & Company | IGS well database | 275 | 7/27/1973 | T89N, R13W, 31, SE NE | poor |
| 45 | 11272 | John Deere Research Farm | IGS well database | 281 | 8/1/1959 | T89N, R13W, 31, SE NE NW | poor |
| 46 | 2091282 | Meyer, Dana | Private well tracking system | 96 | 6/24/2003 | T88N, R14W, Sec. 12, NW, NE, NE | good |
| 47 | 28080 | Schmidt | Permitted private wells | 175 | unkn | T89N, R13W, Sec. 31, NE, SE, SE | poor |
| 48 | 1322 | Koble, Donald | Permitted private wells | 20 | unkn | T89N, R13W, Sec. 31, SE, NE, NW | poor |
| 49 | 2001081 | Schmidt, Jeff | Private well tracking system | 226 | 3/1/2001 | T89N, R13W, Sec. 31, NE, SE, SE | good |
| 50 | 1325 | Koble, Donald | Permitted private wells | 20 | unkn | T89N, R13W, Sec. 31, SE, NE, NW | poor |
| 51 | 1323 | Koble, Donald | Permitted private wells | 20 | unkn | T89N, R13W, Sec. 31, SE, NE, NW | poor |
| 52 | 1324 | Koble, Donald | Permitted private wells | 20 | unkn | T89N, R13W, Sec. 31, SE, NE, NE | poor |
| 53 | 35183 | Lydon, Robert | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 20, SE, NW, NE | poor |
| 54 | 35182 | Lydon, Robert | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 20, SE, NW, NE | poor |
| 55 | 77134 | John Deere Waterloo Tractor Works | IGS well database | 155 | 8/13/1964 | T89N, R13W, 31, SE SE | poor |
| 56 | 71776 | Johnson, Vernon | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 32, NW, NW, NE | poor |
| 57 | 51042 | Cedar Valley Soccer Complex | IGS well database | 180 | 8/12/1999 | T88N, R14W, 1, NE NE SE | poor |
| 58 | 5745 | Cedar Valley Youth Soccer Assoc | Water Use Permit Wells | 220 | unkn | T88N, R14W, Sec. 1, NE, NE, SW | good |
| 59 | 43048 | Waterloo, City Of | IGS well database | 225 | 4/6/1975 | T89N, R13W, 31, SE SE SE | poor |
| 60 | 2411611 | Waterloo Water Works | Public Water Supply well | 225 | 1/1/1975 | T89N, R13W, Sec. 31, SE, SE, SE | poor |
| 61 | 5730 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 225 | 1/1/1975 | T89N, R13W, Sec. 31, SE, SE, SE | good |
| 62 | 2180881 | Hatfield, Bruce | Private well tracking system | 150 | 6/18/2015 | T89N, R13W, Sec. 20, SE, SW, NE | good |
| 64 | 80696 | Hatfield, Bruce | IGS well database | 150 | 6/18/2015 | T89N, R13W, 20, SE SW NE | poor |
| 65 | 42712 | U-Haul Retail | Registered abandoned wells | 20 | unkn | T89N, R13W, Sec. 20, SE, SW, NE | poor |
| 66 | 42714 | U-Haul Retail | Registered abandoned wells | 30 | unkn | T89N, R13W, Sec. 20, SE, NE, SW | poor |
| 67 | 42710 | U-Haul Retail | Registered abandoned wells | 30 | unkn | T89N, R13W, Sec. 20, SE, NE, SW | poor |
| 68 | 2182314 | Dedic, William | Private well tracking system | 125 | 1/1/1980 | T89N, R13W, Sec. 32, SW, SW, NW | good |
| 70 | 29776 | Cahoy Pump Service (Janet Cahoy) | Water Use Permit Wells | unkn | unkn | T89N, R13W, Sec. 29, NE, NW, NE | poor |
| 72 | 29835 | Waterloo Career Center - Community School District (Marty Metcalf) | Water Use Permit Wells | 337 | 4/30/2018 | T89N, R13W, Sec. 29, NE, NW, SE | poor |
| 73 | 73502 | Jacobs, Kris | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 29, NE, SW, NE | poor |
| 74 | 89601 | Waterloo Community School District | IGS well database | 337 | 7/31/2018 | T89N, R13W, 29, NE NE NW | good |
| 75 | 88821 | Waterloo Csd | IGS well database | 337 | 11/29/2017 | T89N, R13W, 29, NE SE SW | good |
| 76 | 2199691 | Waterloo Community School District | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 29, NE, NE, SW | good |
| 77 | 2197956 | Waterloo Community School District | Private well tracking system | 337 | 11/29/2017 | T89N, R13W, Sec. 29, NE, SE, SW | good |
| 78 | 89600 | Waterloo Community School District | IGS well database | 333 | 7/31/2018 | T89N, R13W, 29, NE SE SW | good |
| 79 | 2199690 | Waterloo Community School District | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 29, NE, NE, SW | good |
| 80 | 29775 | Cahoy Pump Service (Janet Cahoy) | Water Use Permit Wells | unkn | unkn | T89N, R13W, Sec. 29, NE, SE, SW | poor |

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|-----|-------------------------|--|------------------------------|------|-----------|---------------------------------|------|
| 81 | 29654 | Shawver Well Company Inc (Dana Lentz) | Water Use Permit Wells | unkn | unkn | T89N, R13W, Sec. 29, NE, SE, SW | poor |
| 82 | 77060 | Sieglaff, C. A. | IGS well database | 159 | 4/1/1947 | T89N, R13W, 29, SE NW | poor |
| 83 | 71845 | Doddema, Dale | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 21, SW, SW, NW | poor |
| 84 | 73487 | Bailey, James | Wells registered for testing | unkn | unkn | T89N, R13W, Sec. 29, NE, SE, NE | poor |
| 87 | 34039 | Wallasen, Pete | IGS well database | 142 | unkn | T89N, R13W, 21, SW NE SW | poor |
| 90 | 1941 | Waterloo Community School District | Water Use Permit Wells | 230 | 8/16/2010 | T89N, R13W, Sec. 21, SW, SE, NE | poor |
| 91 | 1940 | Waterloo Community School District | Water Use Permit Wells | 230 | 8/9/2010 | T89N, R13W, Sec. 21, SW, SE, NE | poor |
| 99 | 13835 | Waterloo, City Of | IGS well database | 205 | 3/6/1962 | T89N, R13W, 21, SW SE NE | poor |
| 100 | 4187 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 209 | 3/6/1962 | T89N, R13W, Sec. 21, SW, SE, NE | good |
| 101 | 2412396 | Waterloo Water Works | Public Water Supply well | 205 | 1/1/1962 | T89N, R13W, Sec. 21, SW, SE, NE | poor |
| 105 | 2149549 | Waterloo Community Schools- West Elementary | Private well tracking system | 230 | 8/16/2010 | T89N, R13W, Sec. 28, NW, NE, SE | good |
| 106 | 52535 | Waterloo Community School District | IGS well database | 230 | 8/9/2010 | T89N, R13W, 28, NW NE SE SW | good |
| 107 | 52717 | Waterloo Community School District | IGS well database | 230 | 8/16/2010 | T89N, R13W, 28, NW NE SE SW | good |
| 114 | 2149550 | Waterloo Community Schools- West Elementary | Private well tracking system | 230 | 8/9/2010 | T89N, R13W, Sec. 28, NE, NW, SW | good |
| 117 | 73770 | Waterloo Industries | IGS well database | 15 | 7/28/2011 | T89N, R13W, 21, NE SE NE | poor |
| 118 | 73784 | Waterloo Industries | IGS well database | 23 | unkn | T89N, R13W, 21, NE SE NE | poor |
| 119 | 73786 | Waterloo Industries | IGS well database | 15 | 7/28/2011 | T89N, R13W, 21, NE SE NE | poor |
| 120 | 73785 | Waterloo Industries | IGS well database | 27 | 7/27/2011 | T89N, R13W, 21, NE SE NE | poor |
| 121 | 73782 | Waterloo Industries | IGS well database | 24 | 7/28/2011 | T89N, R13W, 21, NE SE NE | poor |
| 122 | 73783 | Waterloo Industries | IGS well database | 49 | 7/28/2011 | T89N, R13W, 21, NE SE NE | poor |
| 123 | 14115 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 13 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 124 | 14116 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 13 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 125 | 14118 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 13 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 128 | 14114 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 24 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 129 | 14117 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 13 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 130 | 14113 | Iowa D.O.T., Todd Whipple | Registered abandoned wells | 24 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 132 | 5372 | Iowa D.O.T., Iowa D.O.T. | Registered abandoned wells | 24 | unkn | T89N, R13W, Sec. 21, NE, SE, NE | poor |
| 133 | 89648 | Jrl Holdings Co. | IGS well database | 11 | 8/27/2018 | T89N, R13W, 21, NE SE NE | good |
| 134 | 89649 | Jrl Holdings Co. | IGS well database | 16 | 8/28/2018 | T89N, R13W, 21, NE SE NE | good |
| 135 | 89650 | Jrl Holdings Co. | IGS well database | 15 | 8/28/2018 | T89N, R13W, 21, NE SE NE | good |
| 146 | 2202961 | Ostby, Adam & Lisa | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 160 | 2185029 | Ostby, Lisa | Private well tracking system | 150 | 1/1/1950 | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 161 | 2201308 | Ostby, Adam | Private well tracking system | 52 | 1/1/1970 | T89N, R13W, Sec. 11, SW, NW, NW | good |
| 170 | 57993 | Weber, Brian | Wells registered for testing | 20 | unkn | T89N, R13W, Sec. 11, SW, NW, SE | poor |
| 204 | 30686 | Annis Petroleum | Registered abandoned wells | 15 | unkn | T89N, R13W, Sec. 34, SW, SW, NW | poor |
| 205 | 52853 | Short'S Travel | IGS well database | 170 | 8/4/2000 | T88N, R13W, 4, NW NW NW | poor |
| 206 | 22938 | Guetzlaff | Permitted private wells | 160 | unkn | T89N, R13W, Sec. 27, SE, SW, SW | poor |
| 207 | 49812 | Hollen, Mike | IGS well database | 141 | 2/25/1999 | T89N, R13W, 34, NE NW SE NW | good |
| 208 | 35279 | Longus, Ralph | Registered abandoned wells | 41 | unkn | T89N, R13W, Sec. 27, SE, SE, NW | poor |
| 209 | 87039 | Kingsley Elementary | IGS well database | 140 | 8/10/2005 | T89N, R13W, 34, NE SE NW | poor |
| 210 | 5630 | Waterloo Comm Schools (Kingsley Elem) (Marty Metcalf Director Of Operations) | Water Use Permit Wells | 140 | unkn | T89N, R13W, Sec. 34, NE, SE, NW | poor |
| 211 | 2111580 | Elementary, Kingsley | Private well tracking system | 140 | 8/10/2005 | T89N, R13W, Sec. 34, NE, SE, SW | good |
| 212 | 17396 | Unknown | Permitted private wells | 250 | unkn | T89N, R13W, Sec. 34, NE, NE, SE | poor |
| 213 | 77750 | Renz, Bob | IGS well database | 156 | 6/17/2014 | T88N, R13W, 4, NW SE SE | poor |

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|-----|-------------------------|---|------------------------------|------|------------|---------------------------------|------|
| 214 | 2175589 | Renz, Bob | Private well tracking system | 156 | 6/17/2014 | T88N, R13W, Sec. 4, NW, SE, SE | good |
| 215 | 2166532 | Leistikow, Elmer | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 34, SE, SW, NE | good |
| 216 | 77325 | Schumann, Ed | IGS well database | 135 | 5/23/1973 | T89N, R13W, 34, SE SW | poor |
| 217 | 26965 | Shorts Travel Service | Permitted private wells | 160 | unkn | T89N, R13W, Sec. 35, NW, NW, NW | poor |
| 218 | 25330 | Widen, Duane | Registered abandoned wells | 100 | unkn | T88N, R13W, Sec. 4, NE, SW, SW | poor |
| 219 | 3767 | Waterloo Comm Schools (Lou Henry Elem) (Marty Metcalf Director Of Operations) | Water Use Permit Wells | 214 | unkn | T88N, R13W, Sec. 4, NE, SW, SE | poor |
| 220 | 2102491 | Elementary , Rachel St. | Private well tracking system | unkn | unkn | T88N, R13W, Sec. 4, NE, SW, SE | good |
| 221 | 5728 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 206 | 10/24/1955 | T89N, R13W, Sec. 34, SE, SE, NE | good |
| 222 | 7482 | Waterloo, City Of | IGS well database | 206 | 10/24/1955 | T89N, R13W, 34, SE SE NE | poor |
| 223 | 2412964 | Waterloo Water Works | Public Water Supply well | 206 | 1/1/1955 | T89N, R13W, Sec. 34, SE, SE, NE | poor |
| 224 | 2412618 | Waterloo Water Works | Public Water Supply well | 206 | 1/1/1960 | T89N, R13W, Sec. 34, SE, SE, NE | poor |
| 225 | 12031 | Waterloo, City Of | IGS well database | 215 | 1/1/1960 | T89N, R13W, 34, SE SE NE | poor |
| 226 | 4007 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 215 | 1/1/1960 | T89N, R13W, Sec. 34, SE, SE, NE | good |
| 227 | 59386 | Waterloo Schools | IGS well database | 214 | 7/6/2004 | T88N, R13W, 5, SE NW NE NE | good |
| 228 | 17200 | Boeschen, Reinhard | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 4, NE, NE, NE | poor |
| 229 | 17760 | Kimball Ridge Center, Kimball Ridge Center | Registered abandoned wells | 18 | unkn | T89N, R13W, Sec. 35, SW, SW, SW | poor |
| 230 | 58432 | Willet, Rex | Wells registered for testing | 150 | 1999 | T89N, R13W, Sec. 26, SW, SE, SE | poor |
| 231 | 20083 | Unknown | Permitted private wells | 250 | unkn | T89N, R13W, Sec. 35, SW, SW, NE | poor |
| 232 | 35275 | Amoco #8758 | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 233 | 35277 | Amoco #8758 | Registered abandoned wells | 15 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 234 | 35276 | Amoco #8758 | Registered abandoned wells | 8 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 235 | 35267 | Amoco #8758 | Registered abandoned wells | 13 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 236 | 35274 | Amoco #8758 | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 237 | 35268 | Amoco #8758 | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 238 | 35269 | Amoco #8758 | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 239 | 35272 | Amoco #8758 | Registered abandoned wells | 13 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 240 | 35265 | Amoco #8758 | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 241 | 35264 | Amoco #8758 | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 242 | 35273 | Amoco #8758 | Registered abandoned wells | 5 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 243 | 35263 | Amoco #8758 | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 244 | 35262 | Amoco #8758 | Registered abandoned wells | 10 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 245 | 35271 | Amoco #8758 | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 246 | 35266 | Amoco #8758 | Registered abandoned wells | 13 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 247 | 35270 | Amoco #8758 | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NW, NW, NE | poor |
| 248 | 3950 | Kinney, C. J. | IGS well database | 110 | 7/1/1949 | T89N, R13W, 35, | poor |
| 249 | 29209 | Covenant Medical Center | Permitted private wells | 225 | unkn | T89N, R13W, Sec. 35, SW, SE, NE | poor |
| 250 | 29208 | Unknown | Permitted private wells | 225 | unkn | T89N, R13W, Sec. 35, SW, SE, NE | poor |
| 251 | 15866 | Restaurant Group Of Iowa | Registered abandoned wells | 95 | unkn | T88N, R13W, Sec. 3, SE, NW, NW | poor |
| 252 | 73919 | Cedar Valley Catholic Schools | IGS well database | 180 | 7/12/2011 | T88N, R13W, 3, NE SW SE | good |
| 253 | 2155019 | Cedar Valley Catholic Schools | Private well tracking system | 180 | 7/15/2011 | T88N, R13W, Sec. 3, NE, SW, SE | good |
| 254 | 28431 | Blessed Maria Assunta Pallotta Catholic Middles School (Jeff Frost) | Water Use Permit Wells | 180 | 7/15/2011 | T88N, R13W, Sec. 3, NE, SW, SE | poor |
| 255 | 28432 | Blessed Maria Assunta Pallotta Catholic Middles School (Jeff Frost) | Water Use Permit Wells | 182 | 7/11/2011 | T88N, R13W, Sec. 3, NE, SW, SE | poor |
| 256 | 985 | Waterloo Comm Schools (Kittrell) | Water Use Permit Wells | 176 | 7/18/2008 | T89N, R13W, Sec. 36, SW, SW, NW | poor |
| 257 | 897 | Waterloo Comm Schools (Kittrell) | Water Use Permit Wells | 177 | 7/28/2008 | T89N, R13W, Sec. 36, SW, SW, NW | poor |

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|-----|-------------------------|---|------------------------------|------|------------|---------------------------------|------|
| 258 | 42682 | Quik Trip Corp | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 259 | 42688 | Quik Trip Corp | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 260 | 42684 | Quik Trip Corp | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 261 | 42685 | Quik Trip Corp | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 262 | 42680 | Quik Trip Corp | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 263 | 42678 | Quik Trip Corp | Registered abandoned wells | 10 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 264 | 42687 | Quik Trip Corp | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 265 | 42681 | Quik Trip Corp | Registered abandoned wells | 12 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 266 | 4597 | Nottger, Floyd | IGS well database | 135 | 9/1/1950 | T88N, R13W, 2, NW NW NW NE | good |
| 267 | 42686 | Quik Trip Corp | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 268 | 42683 | Quik Trip Corp | Registered abandoned wells | 14 | unkn | T88N, R13W, Sec. 3, NE, SE, SE | poor |
| 269 | 2135938 | School, Kittrell #1 | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 36, SW, SW, NE | good |
| 270 | 2351 | Reiter, Art C. | IGS well database | 151 | 4/11/1946 | T88N, R13W, 2, NW SW NW SW | poor |
| 271 | 73424 | Waterloo Community Schools | IGS well database | 177 | unkn | T89N, R13W, 36, SW SW NE SE | good |
| 272 | 2135941 | School, Kittrell #2 | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 36, SW, SW, NE | good |
| 273 | 2116171 | Swanson, Randy | Private well tracking system | unkn | unkn | T89N, R13W, Sec. 36, SW, SE, SW | good |
| 274 | 3494 | Ocwen Financial (Bruce Berry) | Water Use Permit Wells | 200 | unkn | T88N, R13W, Sec. 2, NW, SW, SW | good |
| 275 | 38378 | Gmac Mortgage Corporation | IGS well database | 180 | 4/13/1983 | T88N, R13W, 2, SW NW SW NE SE | poor |
| 276 | 2146971 | Hemesath, Stan | Private well tracking system | 87 | 1/1/1930 | T89N, R13W, Sec. 36, SE, NW, NW | good |
| 277 | 3493 | Ocwen Financial (Bruce Berry) | Water Use Permit Wells | 200 | unkn | T88N, R13W, Sec. 2, SW, NW, NE | good |
| 278 | 38377 | Gmac Mortgage Corporation | IGS well database | 150 | 4/24/1980 | T88N, R13W, 2, SW NW SE NE | poor |
| 279 | 21024 | Menard'S, Inc. | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 2, SW, NW, SE | poor |
| 280 | 21023 | Menard'S, Inc. | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 2, SW, NW, SE | poor |
| 281 | 21025 | Menard'S, Inc. | Registered abandoned wells | unkn | unkn | T88N, R13W, Sec. 2, SW, NW, SE | poor |
| 302 | 43046 | Waterloo, City Of | IGS well database | 139 | 12/28/1962 | T88N, R13W, 2, NE NE SW | poor |
| 303 | 4189 | Waterloo Water Works (General Manager) | Water Use Permit Wells | 139 | 12/28/1962 | T88N, R13W, Sec. 2, NE, NE, SW | good |
| 304 | 2410543 | Waterloo Water Works | Public Water Supply well | 139 | 1/1/1961 | T88N, R13W, Sec. 2, NE, NE, SW | poor |
| 306 | 2583533 | Aadc | Public Water Supply well | 400 | unkn | T88N, R13W, Sec. 2, NE, SE, NE | poor |
| 307 | 2408252 | Good Times Motel | Public Water Supply well | 125 | 1/1/1955 | T88N, R13W, Sec. 2, NE, SE, NE | poor |
| 308 | 33291 | Waterloo Water Works | Registered abandoned wells | 36 | unkn | T88N, R13W, Sec. 2, NE, SE, NW | poor |
| 309 | 33458 | Waterloo Water Works | Registered abandoned wells | 36 | unkn | T88N, R13W, Sec. 2, NE, SE, NW | poor |
| 310 | 33290 | Waterloo Water Works | Registered abandoned wells | 28 | unkn | T88N, R13W, Sec. 2, NE, SE, SW | poor |
| 311 | 33289 | Waterloo Water Works | Registered abandoned wells | 36 | unkn | T88N, R13W, Sec. 2, NE, SE, NE | poor |
| 312 | 33292 | Waterloo Water Works | Registered abandoned wells | 20 | unkn | T88N, R13W, Sec. 2, NE, SE, NE | poor |
| 313 | 27189 | Equitable Life Assurance, Society Of The Us | Registered abandoned wells | 37 | unkn | T88N, R13W, Sec. 2, SE, NE, NW | poor |
| 314 | 26176 | Equitable Life Assurance, Society Of The Us | Registered abandoned wells | 36 | unkn | T88N, R13W, Sec. 2, SE, NE, NW | poor |
| 315 | 27190 | Equitable Life Assurance, Society Of The Us | Registered abandoned wells | 36 | unkn | T88N, R13W, Sec. 2, SE, NE, SW | poor |
| 316 | 26177 | Equitable Life Assurance, Society Of The Us | Registered abandoned wells | 37 | unkn | T88N, R13W, Sec. 2, SE, NE, SE | poor |
| 317 | 26178 | Equitable Life Assurance, Society Of The Us | Registered abandoned wells | 37 | unkn | T88N, R13W, Sec. 2, SE, NE, NE | poor |
| 320 | 2171792 | Destival, Phil | Private well tracking system | 84 | 1/1/1960 | T88N, R13W, Sec. 11, NE, NE, NE | good |
| 331 | 76800 | Fiacco, Ronald | IGS well database | 200 | 8/9/2013 | T88N, R12W, 18, NW SE NW | poor |
| 332 | 2172236 | Geothermal Eco Options Inc | Private well tracking system | 200 | 8/9/2013 | T88N, R12W, Sec. 18, NW, SE, NW | good |
| 335 | 2148929 | Burtch, Peter | Private well tracking system | 78 | 1/1/1968 | T88N, R12W, Sec. 18, NW, NE, NE | good |
| 340 | 2203471 | Current Owner John Holton | Private well tracking system | 90 | 1/1/1970 | T88N, R12W, Sec. 18, NE, NW, NW | good |
| 341 | 2125054 | Murray, Brenda | Private well tracking system | 120 | 1/1/1958 | T88N, R12W, Sec. 18, SW, NE, SE | good |

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|-----|-------------------------|---------------------|------------------------------|----|------------|---------------------------------|------|
| 358 | 5375 | Eastman, Michael | Registered abandoned wells | 68 | unkn | T88N, R12W, Sec. 17, NW, SW, SW | poor |
| 360 | 2101799 | Ramsey, William | Private well tracking system | 45 | 1/1/1969 | T88N, R12W, Sec. 17, NW, SW, NW | good |
| 361 | 2201275 | Hollingsworth, Chad | Private well tracking system | 90 | 1/1/1970 | T88N, R12W, Sec. 17, SW, SW, NW | good |
| 362 | 2101800 | Howard, Larry | Private well tracking system | 75 | 1/1/1967 | T88N, R12W, Sec. 17, NW, SW, SE | good |
| 363 | 2182318 | Moyer, Tim | Private well tracking system | 89 | 1/1/1960 | T88N, R12W, Sec. 17, SW, SW, NW | good |
| 364 | 2092379 | Potts, Lenora | Private well tracking system | 75 | 1/1/1962 | T88N, R12W, Sec. 17, SW, SW, SW | good |
| 365 | 2101798 | Culver, Gerald | Private well tracking system | 75 | 1/1/1976 | T88N, R12W, Sec. 17, NW, SW, SE | good |
| 366 | 78050 | Engel, J. E. | IGS well database | 78 | 12/17/1970 | T88N, R12W, 17, SW NW SW | poor |

¹Well id's are hyperlinked to detailed well information where available.

Click once to open the spreadsheet, then click again to follow the link.

²Estimated horizontal accuracy: < 25m. = good; 25m. to 50m. = fair; >50m. = poor

Table 3a. Land cover within your Alluvial source water area.

Waterloo - Alluvial aquifer Highly Susceptible
Summary of land cover types (2018) by percentage of total

| Capture zone | Row Crop | Alfalfa | Grassland | Wetlands | Water | Developed Areas | Barren Areas | Forested Areas | Total Acres |
|---------------------|----------|---------|-----------|----------|-------|-----------------|--------------|----------------|-------------|
| 2-year | 1.0 | 0.0 | 3.9 | 0.2 | 3.7 | 85.5 | 0.0 | 5.6 | 1,065 |
| 5-year | 2.9 | 0.0 | 9.3 | 1.6 | 16.7 | 54.4 | 0.8 | 14.2 | 1,253 |
| 10-year | 30.6 | 0.3 | 16.7 | 2.2 | 6.3 | 37.2 | 0.6 | 6.1 | 1,673 |
| surface runoff area | 22.7 | 0.1 | 24.6 | 1.1 | 1.7 | 29.6 | 0.0 | 20.2 | 756 |

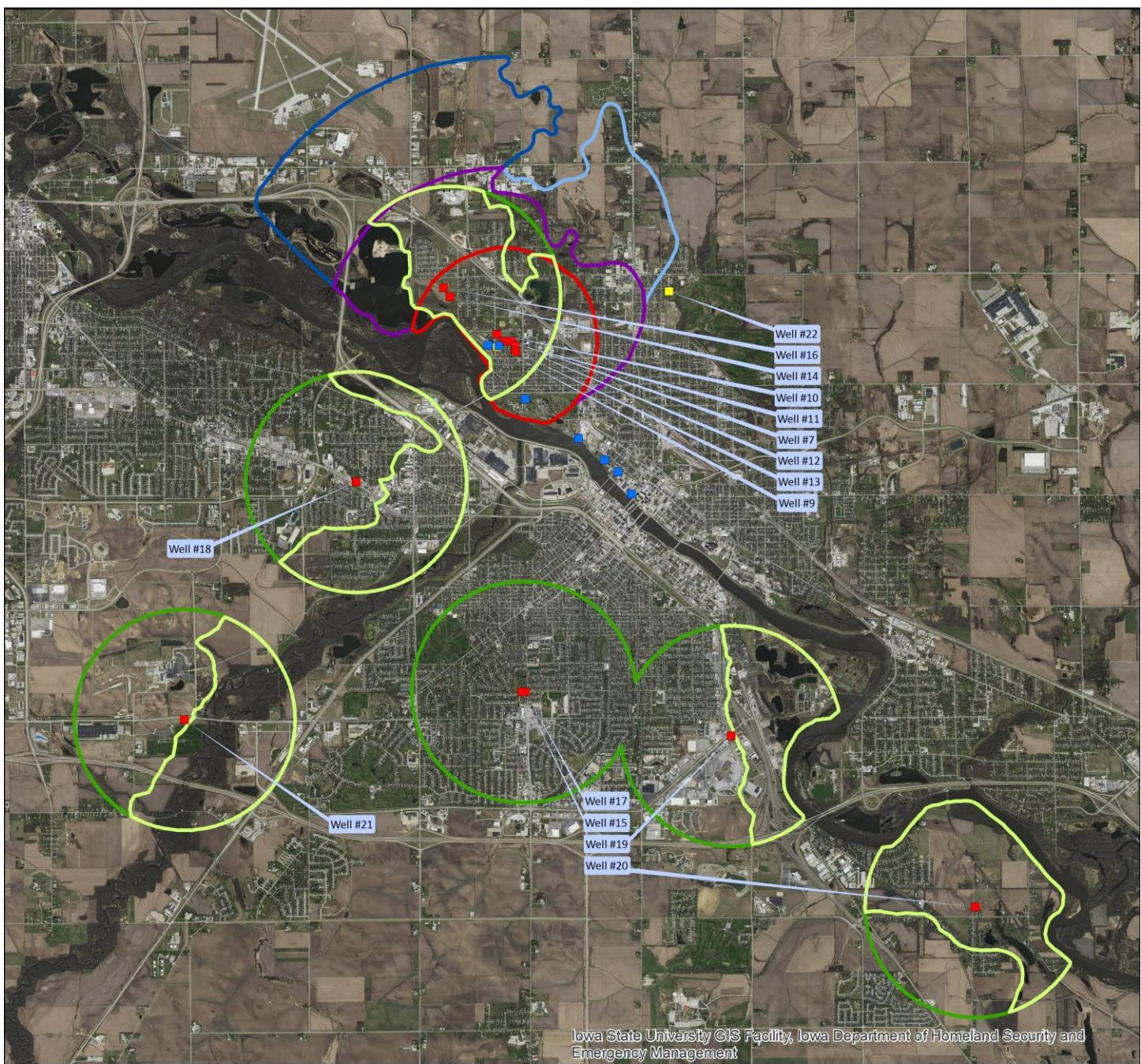
Table 3b. Land cover within the Silurian-Devonian source water area.

Waterloo - Silurian-Devonian aquifer Highly Susceptible
Summary of land cover types (2018) by percentage of total

| Capture zone | Row Crop | Alfalfa | Grassland | Wetlands | Water | Developed Areas | Barren Areas | Forested Areas | Total Acres |
|-------------------------|----------|---------|-----------|----------|-------|-----------------|--------------|----------------|-------------|
| modified karst - high | 4.2 | 0.0 | 9.2 | 0.4 | 2.4 | 76.2 | 0.0 | 7.7 | 1,071 |
| modified karst - high | 3.5 | 0.0 | 2.7 | 0.6 | 1.3 | 84.4 | 0.1 | 7.3 | 929 |
| modified karst - high | 23.9 | 0.9 | 14.2 | 0.5 | 1.3 | 19.0 | 0.1 | 40.2 | 1,015 |
| modified karst - high | 0.5 | 0.0 | 7.1 | 3.0 | 10.7 | 69.2 | 0.5 | 9.1 | 731 |
| modified karst - high | 32.5 | 0.3 | 18.5 | 1.9 | 2.4 | 29.4 | 0.0 | 15.0 | 1,141 |
| modified karst - medium | 0.0 | 0.0 | 15.4 | 0.7 | 0.4 | 60.3 | 0.2 | 23.0 | 123 |
| modified karst - medium | 0.2 | 0.0 | 2.4 | 0.0 | 0.0 | 96.4 | 0.0 | 1.0 | 1,079 |
| modified karst - medium | 29.4 | 1.5 | 31.2 | 0.2 | 1.0 | 33.3 | 0.1 | 3.4 | 995 |
| modified karst - medium | 2.2 | 0.1 | 1.1 | 0.0 | 0.2 | 96.2 | 0.0 | 0.2 | 3,092 |
| modified karst - medium | 53.5 | 0.2 | 9.3 | 0.2 | 0.1 | 28.4 | 0.0 | 8.2 | 553 |

Waterloo 790074

Alluvial + Silurian-Devonian Aquifers - Source Water Protection Area



Public Wells

- Active
- Standby
- Not Used

Groundwater Capture Zones

- 2-Year Capture Zone
- 5-Year Capture Zone
- 10-Year Capture Zone
- Modified Karst - High
- Modified Karst - Medium
- Surface Runoff Area

0 1.8 Miles

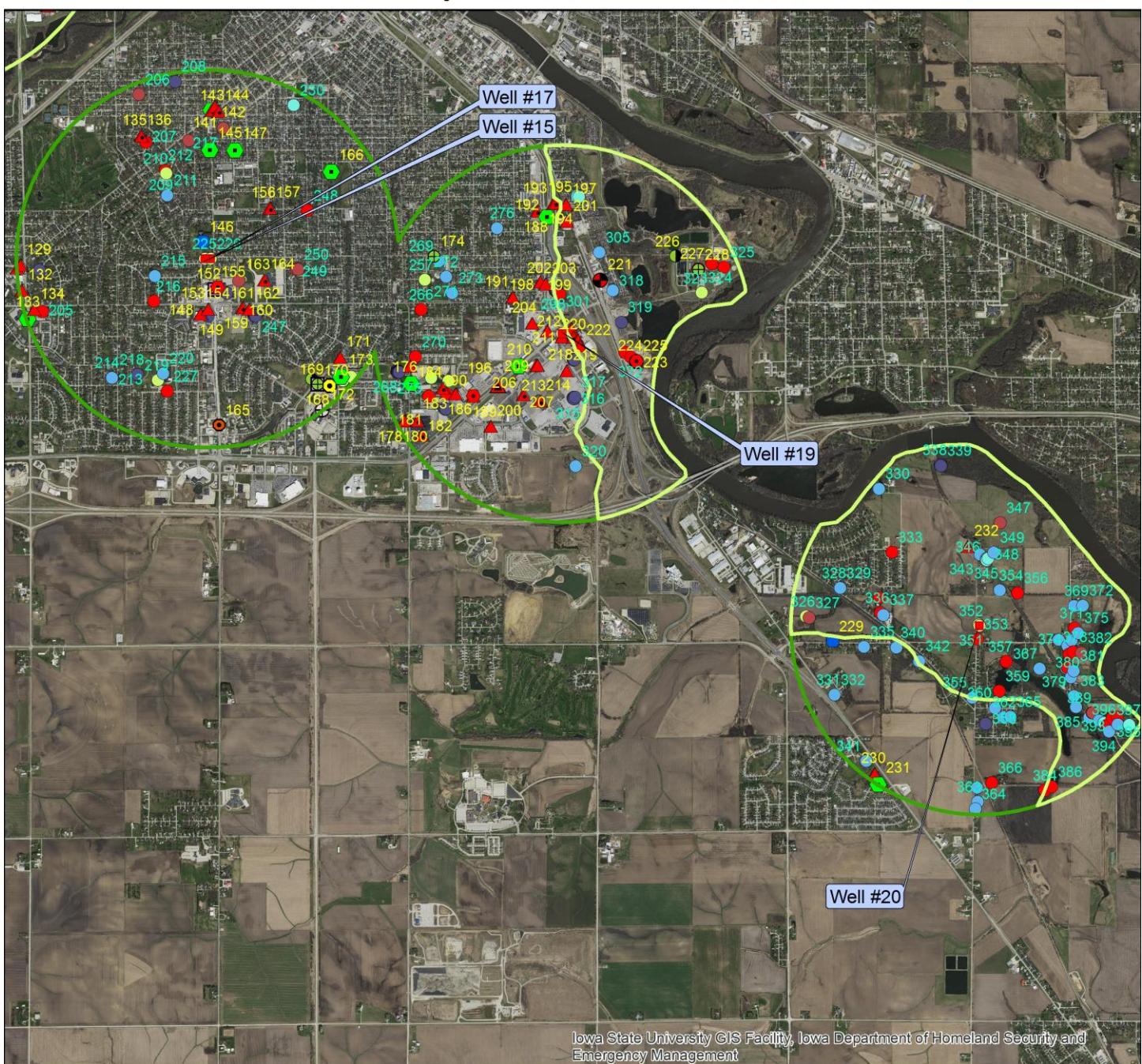


Iowa
SOURCE
WATER
Protection

Report Created: 7/1/2019

Waterloo 0790074

Silurian-Devonian Aquifer - Source Water Protection Area



Public Wells

- Active

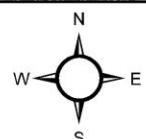
Other Wells

- IGS well database
- Permitted private wells
- Private well tracking system
- Public water supply well
- Registered abandoned wells
- Water use permit wells
- Wells registered for testing

Groundwater Capture Zones

- Modified Karst - High
- Modified Karst - Medium

0 1.2 Miles



Contaminant Sources

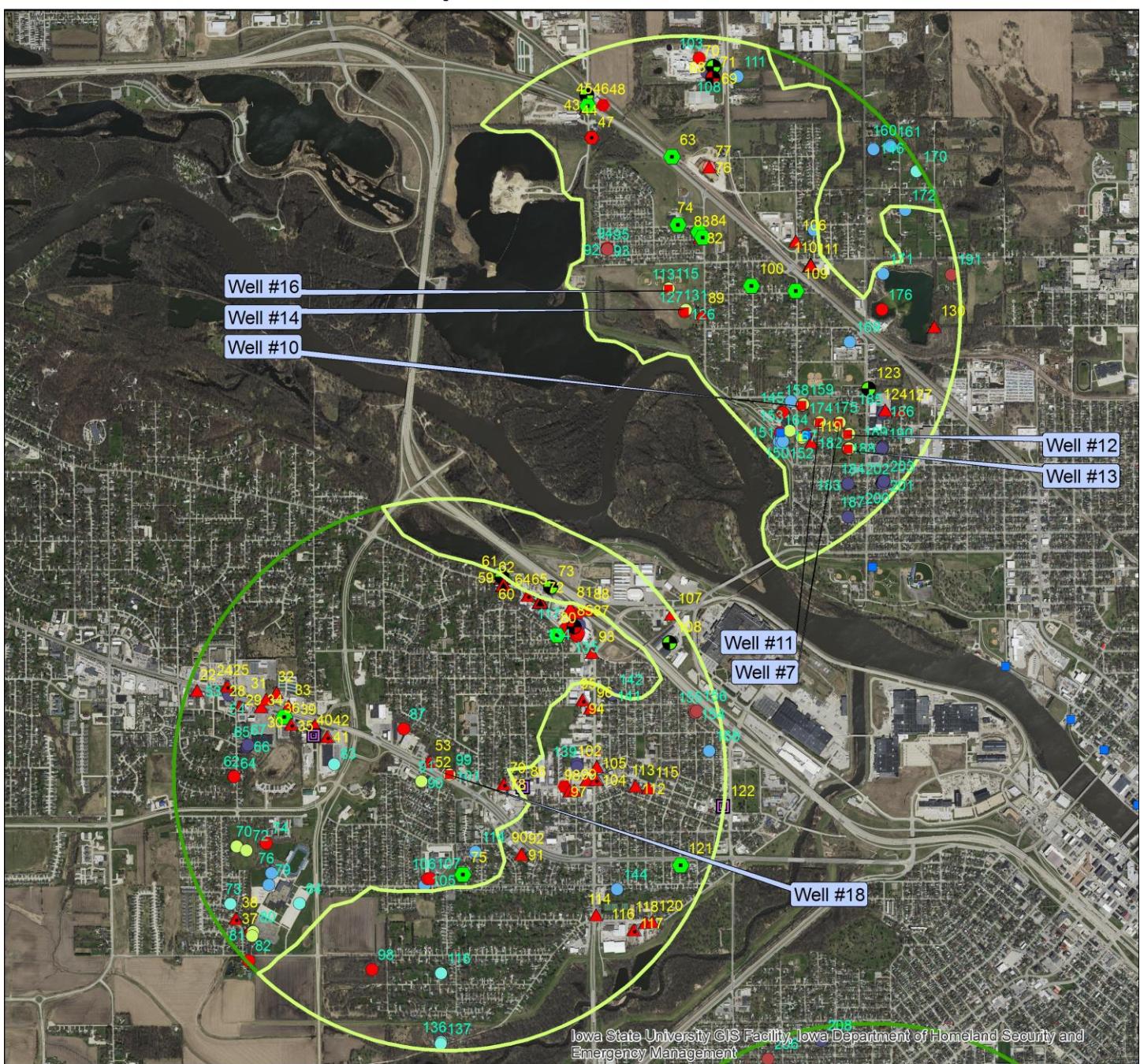
- | | |
|-----------------------------|---------------------------------|
| ● Air permit - minor | ● Cemeteries |
| ● Air permit - dry cleaner | ▲ Above ground fuel storage |
| ● Airports | ▲ Underground storage tank |
| ● Contaminated sites | ▲ Leaking USTs |
| ● Tier II chemical storage | ■ Solid waste facility |
| ● Hazardous materials spill | ● Wastewater outfall |
| ⊕ Hospitals | ⊕ Wastewater treatment facility |



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Waterloo 0790074

Silurian-Devonian Aquifer - Source Water Protection Area



Public Wells

- Active

Other Wells

- IGS well database
- Permitted private wells
- Private well tracking system
- Public water supply well
- Registered abandoned wells
- Water use permit wells
- Wells registered for testing

Groundwater Capture Zones

- Modified Karst - High
- Modified Karst - Medium

0

0.8 Miles



Contaminant Sources

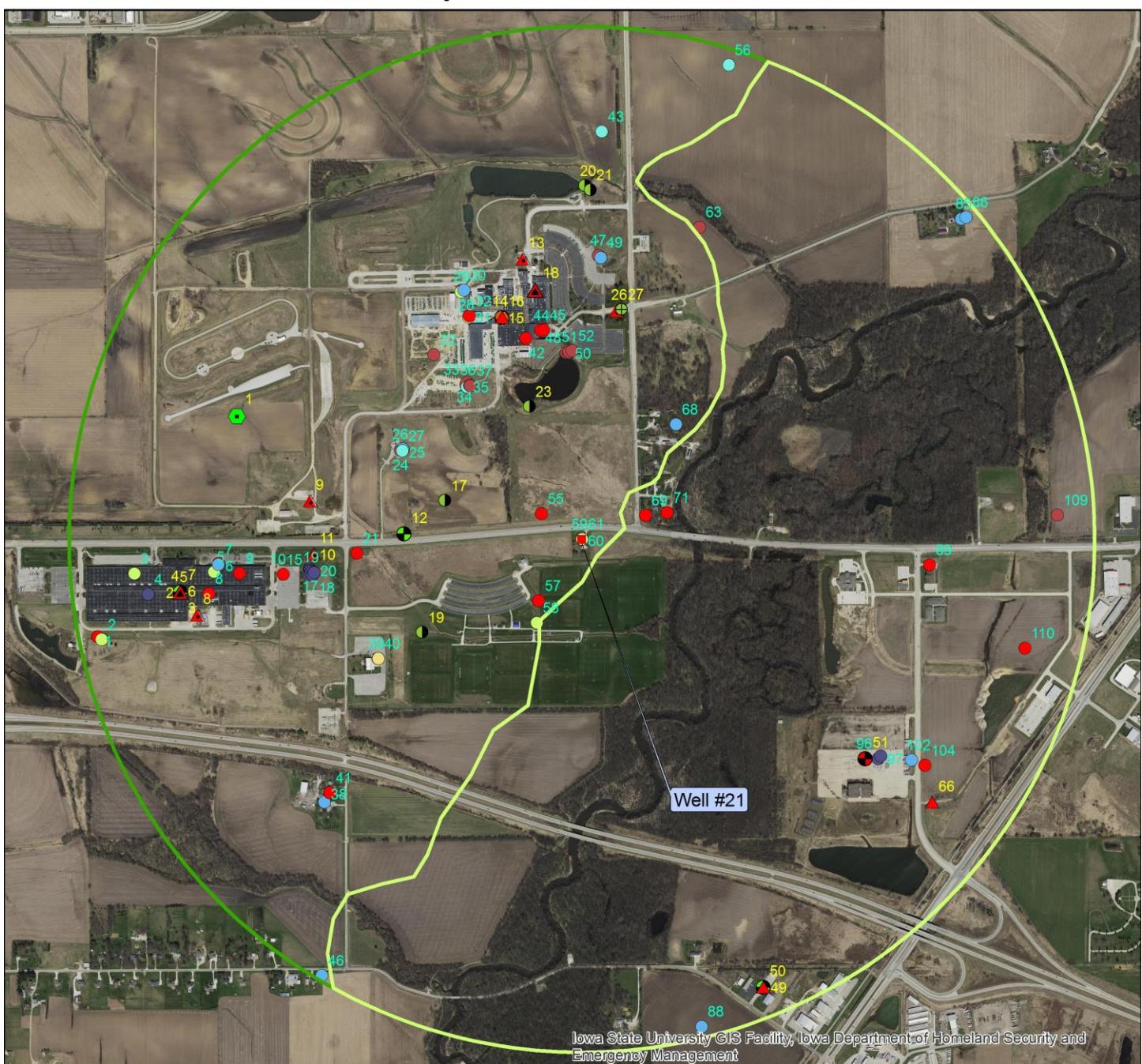
- Air permit - minor
- Air permit - dry cleaner
- Airports
- Contaminated sites
- Tier II chemical storage
- Hazardous materials spill
- Hospitals
- Cemeteries
- ▲ Above ground fuel storage
- ▲ Underground storage tank
- ▲ Leaking USTs
- Solid waste facility
- Wastewater outfall
- Wastewater treatment facility



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Silurian-Devonian Aquifer - Source Water Protection Area



Public Wells

- Active

Other Wells

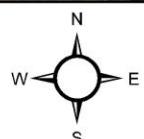
- IGS well database
- Permitted private wells
- Private well tracking system
- Public water supply well
- Registered abandoned wells
- Water use permit wells
- Wells registered for testing

Groundwater Capture Zones

- Modified Karst - High
- Modified Karst - Medium

0

0.4 Miles



Contaminant Sources

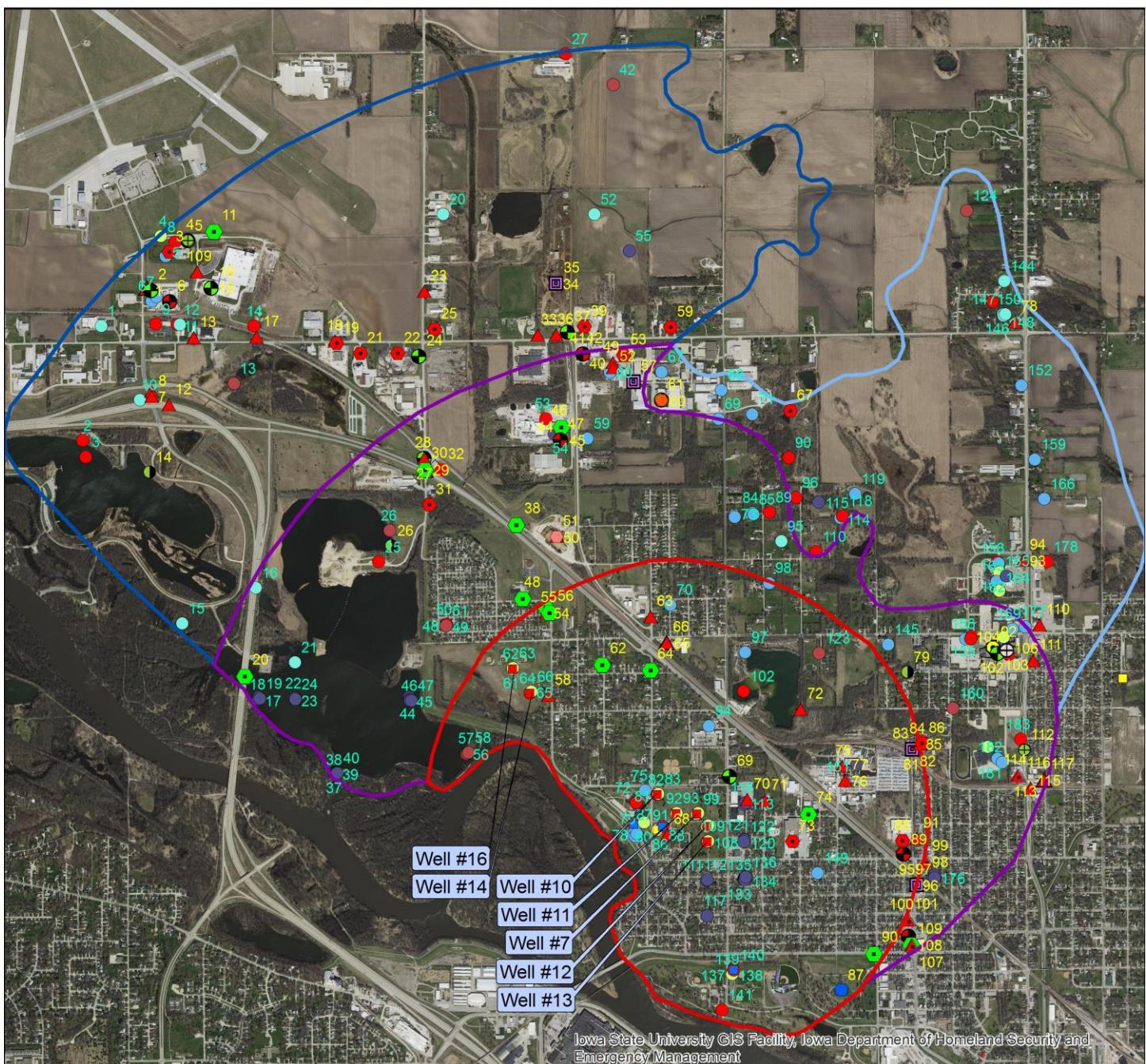
- | | |
|-----------------------------|---------------------------------|
| ● Air permit - minor | ● Cemeteries |
| ● Air permit - dry cleaner | ▲ Above ground fuel storage |
| ● Airports | ▲ Underground storage tank |
| ● Contaminated sites | ▲ Leaking USTs |
| ● Tier II chemical storage | ■ Solid waste facility |
| ● Hazardous materials spill | ● Wastewater outfall |
| ⊕ Hospitals | ⊕ Wastewater treatment facility |



Report Created: 6/20/2019

Waterloo 0790074

Alluvial Aquifer - Source Water Protection Area



Public Wells

- Active
- Standby
- Not Used

Other Wells

- IGS well database
- Permitted private wells
- Private well tracking system
- Public water supply well
- Registered abandoned wells
- Water use permit wells
- Wells registered for testing

Groundwater Capture Zones

- 2-Year Capture Zone
- 5-Year Capture Zone
- 10-Year Capture Zone
- Surface Runoff Area

Contaminant Sources

- Air permit - group 1 grain elevators
- Air permit - minor
- Air permit - PBR spray booth
- Air Permit - Title V
- Airports
- Contaminated sites
- Tier II chemical storage
- Wastewater outfall
- Wastewater treatment facility
- Hazardous materials spill
- Hospitals
- Cemeteries
- Above ground fuel storage
- Underground storage tank
- Leaking USTs
- Solid waste facility

0

0.6 Miles



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