



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Craig W. Butler, Director

February 6, 2019

Re: Artesian of Pioneer  
Plan  
Correspondence  
Drinking Water Program  
Fulton County  
PWSID: OH2637914  
Classification: Well Site Approval

Mr. Edward A. Kidston, President & CEO  
Artesian of Pioneer, Inc.  
50 Industrial Avenue  
Pioneer, Ohio 43554

**Subject: Application No. 1253513-WS; Conditioned Draft Well Site Approval**

Dear Mr. Kidston:

The application for well site approval, with accompanying plans and specifications for the above referenced facility has been reviewed by the staff of Ohio EPA. The proposed well site complies with the requirements of Ohio Administrative Code (OAC) Chapter 3745-9 and therefore is being issued as a draft well site approval.

The purpose of this draft is to solicit public comments on the well site approval. An information session will be held at 6pm on March 12, 2019 at Fayette Local School at 400 East Gamble Road, Fayette, Ohio 43521. An associated public notice and comment period will be announced shortly.

A copy of the draft well site approval is enclosed.

Following the close of the public comment period, the Director may issue a final well site approval upon such terms and conditions necessary to ensure compliance with ORC Chapter 6109 and the rules adopted thereunder.

If you have any questions regarding this letter, or any other matter involving your water system, please feel free to contact Taylor Browning by email at [taylor.browning@epa.ohio.gov](mailto:taylor.browning@epa.ohio.gov) or by phone at (419) 373-3007.

Sincerely,

A handwritten signature in blue ink that reads "Paul G. Brock".

Paul G. Brock, P.E.  
Engineering Supervisor  
Division of Drinking and Ground Waters  
/wla

A handwritten signature in black ink that reads "Taylor Browning".

Taylor Browning, EIT  
Environmental Specialist  
Division of Drinking and Ground Waters

Enclosure: Draft Well Site Approval Letter

pc: Ortman Drilling, Inc.  
Fulton County Health Department  
ec: Edward Kidston, Artesian of Pioneer  
Todd Feenstra, Tritium  
Shannon Nabors, Chief, NWDO  
Eric Getz, Asst. Chief, NWDO  
Ellen Gerber, DDAGW-NWDO  
Elizabeth Wick, DSW-NWDO  
Paul G. Brock, P.E., DDAGW-NWDO  
John Weaver, DDAGW-NWDO  
Chad Zajkowski, DDAGW-NWDO  
Jim Raab, ODNR

Taylor Browning, DDAGW-NWDO  
Lara Schramm, DDAGW-NWDO  
Colin Bennett, Legal-CO  
Beth Messer, DDAGW-CO  
Amy Klei, DDAGW-CO  
Craig Smith, DDAGW-CO  
Ann Fischbein, Lega- CO  
Susan Schell, DDAGW-CO  
Heather Lauer, PIC-CO





Mike DeWine, Governor  
Jon A. Husted, Lt. Governor  
Laurie A. Stevenson, Director

RE: Artesian of Pioneer  
Plan  
Approval  
Drinking Water Program  
Fulton County  
PWSID: OH2637914  
Package Number: 1253513  
Classification: Well Site Approval

Mr. Edward Kidston  
President & CEO  
Artesian of Pioneer  
50 Industrial Ave  
Pioneer, OH 43554

**Subject: Application No. 1253513-WS; Conditioned Draft Well Site Approval**

Ladies and Gentlemen:

On December 21, 2018, Taylor Browning, Craig Smith, and Chad Zajkowski of Ohio EPA and Jim Raab of the Ohio Department of Natural Resources (ODNR) met with you, Todd Feenstra of Tritium, and Tom Borck of Poggemeyer Design Group to review a well site for proposed Production Well #1 to serve Artesian of Pioneer. The proposed well site is located at 24668 County Road S, Fayette, OH 43521. A map of the site showing the proposed well location is attached and is being included herein for documentation. The proposed well site complies with the requirements of Ohio EPA in accordance with Ohio Administrative Code (OAC) Chapter 3745-9 and the proposed well site is hereby accepted subject to the following conditions:

1. The sanitary isolation radius is determined from the estimated average daily water demand. Based upon the well site application not including an estimated daily water demand, the sanitary isolation radius will be set based on the maximum potential flow. The owner of the water supply shall maintain ownership or obtain an easement or lease of all land within a 300-foot radius of any permanent production well installed at this site in accordance with OAC 3745-9-04(B)(1) and (2). This isolation radius may be modified in the future in accordance with OAC 3745-9-04(B)(2) and/or (B)(3).

Where this radius extends beyond the public water system's property boundary, the owner of the public water system must have a recorded easement or lease with the landowner that sanitary control will be maintained around the well within the isolation radius.

2. The use of all land within the isolation radius must conform to the requirements of Ohio EPA. More specifically, this land shall be maintained such that no new potential sources of contamination are established within the isolation radius as determined under OAC 3745-9-04(B)(4).



In addition, an inner management zone and drinking water source protection area will be identified for this well in the Source Water Assessment Report which Ohio EPA will prepare once the well is drilled and operational. OAC 3745-9-04 outlines additional restrictions on what can be located within the isolation radius and the drinking water source protection area.

For future reference, please be aware of the following requirements:

1. Well construction must comply with all Ohio EPA Water Well Standards, OAC 3745-9-01 through 3745-9-09. You can view these rules on the internet at [www.epa.ohio.gov/ddagw/rules.aspx](http://www.epa.ohio.gov/ddagw/rules.aspx). General criteria, applicable to all wells, includes the following:

- a. A minimum of 25 feet of solid, watertight casing must extend below the ground surface as required by OAC 3745-9-05(B)(3).
- b. Minimum casing diameter shall be five inches and sized to allow the well to produce water that is adequate for the intended use, and to allow for the installation and maintenance of the well and related pumping equipment as required by OAC 3745-9-05(A)(4)(a).
- c. Well casing shall conform to the following:

**Steel**

- Minimum thickness as defined in OAC 3745-9-05(A)(4)(b)
- Pipe specification as defined in OAC 3745-9-05(A)(4)(b)
- Joint specifications as defined in OAC 3745-9-05(A)(4)(b)

**Thermoplastic (i.e. PVC)**

- Minimum SDR as defined in OAC 3745-9-05(A)(4)(c)
- Pipe specification as defined in OAC 3745-9-05(A)(4)(c)
- Joint specifications as defined in OAC 3745-9-05(A)(4)(c)

Thermoplastic well casing shall not be installed where potential or known contaminants may degrade or permeate plastic and must not be driven.

- d. The well must be properly grouted in accordance with OAC Rule 3745-9-07, which requires that all annular spaces be completely filled with grout from the ground surface to the bottom of the annular space. All annular spaces shall be of sufficient size so that the grout can be properly placed per OAC 3745-9-05(A)(17).
- e. The well cap / seal shall fit securely to the top of the well casing, be secured with screws or other appropriate connections, and vent to the atmosphere in accordance with OAC Rule 3745-9-05(A)(12). The well cap shall conform with "Water System Council Pitless Adapter Standard PAS-97" or with an alternative standard acceptable to the director, in accordance with OAC Rule 3745-9-05(B)(11). The pitless adapter or pitless unit shall conform with "Water System Council Pitless Adapter Standard PAS-97, Performance Standards and



Recommended Installation Procedures for Sanitary Water Well Pitless Adapters, Pitless Units, and Well Caps," (2012) or with an alternative standard acceptable to the director, in accordance with OAC Rule 3745-9-05(B)(10)(b).

- f. OAC Rule 3745-9-05(B)(12) requires that the top of the casing extend at least three feet above the 100-year flood or the highest known flood elevation, whichever is higher. Under no circumstance shall the casing extend less than 12 inches above finished grade in accordance with OAC Rule 3745-9-05(A)(11).

Flood Rate Insurance Map #39051C0037D indicates that the proposed well site is not located within a 100-year flood plain.

- g. The PWS well shall be developed upon completion until turbidity or sand content in the well is minimal in accordance with OAC 3745-9-09(A). Mechanical development techniques shall be used in accordance with OAC 3745-9-09(A)(1). Chemical development may also be utilized with prior consultation with the District Office in accordance with OAC 3745-9-09(A)(2).
  - h. Well screens shall be installed where the geological formations are unconsolidated or incompetent in accordance with OAC 3745-9-05(B)(6).
2. Detail Plans of Production Well #1 prepared in accordance with OAC Chapter 3745-91 regarding well construction shall be submitted to and approved by Ohio EPA. Detail Plans for Production Well #1 can be submitted prior to General Plans for the proposed facility; however, Production Well #1 cannot be placed into service until after General Plans for the proposed facility, followed by Detail Plans for the proposed facility, are submitted to and approved by Ohio EPA, as required by Condition No. 5 of this Well Site Approval. As a requirement of Detail Plan approval, it will be necessary to submit the following regarding Production Well #1:
- a. A copy of any deed or other document showing the ownership and sanitary control of the prescribed isolation area as required by 3745-9-04(B)(1).
  - b. A copy of the Pumping Test Report conducted in accordance with OAC 3745-9-09(B).

In accordance with OAC Rule 3745-9-09(B), a pumping test must be performed to determine the performance of the well. The pumping test is to be conducted at the time the well is drilled.

As discussed during the December 21, 2018 well site visit, Tritium has drafted a proposed plan for the pumping test. Provide this plan to Ohio EPA for review, as soon as possible to ensure compliance with the requirements of OAC Rule 3745-9-09.

At a minimum, the pumping test shall be conducted in accordance with the requirements of OAC Rule 3745-9-09 including, but not limited to, the following:



First, a step drawdown test shall be conducted with at least three progressively increasing pumping rates then a constant rate pumping test shall be conducted for at least 24 hours for at least 1.5 times the pump design rate. The constant test may be conducted at a lower pumping rate if the test is conducted at no less than 1.2 times the pump design rate and a demonstration is provided that supports the reasoning for a lower pumping rate.

The aquifer test must include water level measurements from observation or surrounding wells. A copy of the pumping test report must be forwarded to this office.

- c. A copy of the hydrogeologic investigation conducted in accordance with OAC 3745-9-04 (E) shall be submitted to ensure that contaminants will not be drawn into the well and that a sufficient quantity of ground water exists for the intended purpose. The investigation shall be conducted by a qualified ground water professional. A hydrogeological investigation is a study of the subsurface and geologic conditions. Information shall be collected, without limitation, about the type and thickness of geologic materials, the occurrence of ground water, how it flows in pore spaces and fractures, and the quantity and quality of the ground water.
  - d. A copy of the well log that shall be filed with the ODNR as required by Section 1521.05 of the Ohio Revised Code.
  - e. A copy of the chemical analysis, performed at a laboratory certified by the State of Ohio, for samples collected at the end of the pumping test in accordance with OAC 3745-9-09(C). Ensure that Sample Monitoring Point (SMP) identifier **RS001** is used on the laboratory sample Submission Report forms.
  - f. The well must be disinfected and bacteriologically tested in accordance with OAC 3745-9-08. Results from two consecutive total coliform samples collected from the well at least 30 minutes apart and analyzed in an Ohio EPA certified lab must be provided with the detail plans.
  - g. Any applicable specifications required for Detail Plan approval.
  - h. A completed copy of the water supply data sheet as required by OAC 3745-91-05.
  - i. The Plan Approval Fees which is equal to \$150 plus 0.35% of the estimated water project cost made payable to the Treasurer of the State of Ohio [ $\$150.00 + (.0035 \times \text{estimated water project cost})$ ]. In addition, if the well is part of a public water system requiring a license under Chapter 6109 of the Ohio Revised Code, include a \$20 Well Log Fee in the fee calculation. Ohio EPA collects this fee for ODNR in accordance with Section 1521.05(G) of the Ohio Revised Code.
3. General Plans for the proposed facility prepared in accordance with OAC Chapter 3745-91 must be submitted to Ohio EPA and approved prior to submittal of Detail Plans of the proposed facility. General Plans for the proposed facility must contain preliminary



information concerning proposed source(s), treatment and distribution. Information such as anticipated population to be served, average daily demand, etc. must also be included in the General Plan submittal. Production Well #1 cannot be placed into service until General Plans for the proposed facility and Detail Plans for the proposed facility and Production Well #1 are submitted to and approved by Ohio EPA.

4. OAC 3745-87-02(A)(1) requires new public water systems to submit an outline describing what their Asset Management Program will entail prior to operation along with the General Plan submission required under OAC 3745-91. The outline of the Asset Management Program must demonstrate the technical, managerial and financial capability of the system and be accepted by Ohio EPA prior to approval of the Detail Plans for the public water system.

OAC 3745-87-02(B) requires any public water system applying for Drinking Water State Revolving Fund assistance to demonstrate an acceptable Asset Management Program and must address any deficiencies noted in a capability screening prior to funds being allocated.

Effective rules, templates, guidance, and other documents related to Asset Management are available at Ohio EPA's Asset Management webpage located at <https://epa.ohio.gov/ddacw/pws#113435168-asset-management>.

5. Additional treatment or a different water source may be required depending on the results of the chemical analysis. Please note that if the proposed water system will include treatment then the corresponding waste stream(s) will need to be properly disposed. You will need to contact the Division of Surface Water at 419-373-3053 to discuss waste disposal methods.
6. The proposed pump capacity can withdraw over 70 gallons per minute, therefore you will be required to register with ODNR's Water Withdrawal Facility Registration (WWFR) Program. Please contact ODNR at (614) 265-6745 for registration information or see the ODNR webpage for WWFR information at: <http://water.ohiodnr.gov/water-use-planning/water-withdrawal-facilities-registration>.

This site approval shall become void two years from the date of this letter unless a formal plan approval has been issued.

If a Water Supply Revolving Loan Account (WSRLA) loan is desired, it will be necessary to comply with the requirements of Ohio Revised Code 6109.22. If compliance with WSRLA requirements necessitates any revisions to the plans as herein approved, a resubmittal and approval of the plans will be required before construction.

Should there be any questions regarding the requirements, meaning, or interpretation of any of the above which we may clarify, please contact the Division of Drinking and Ground Waters, Northwest District Office, Ohio Environmental Protection Agency.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds



upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Treasurer of the State of Ohio", which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
30 East Broad Street, 4<sup>th</sup> Floor  
Columbus, OH 43215

Ohio EPA has developed a customer service survey to get feedback from regulated entities that have contacted us for regulatory assistance, or worked with the Agency to obtain a permit, license or other authorization. Ohio EPA's goal is to provide our customers with the best possible customer service, and your feedback is important to us in meeting this goal. Please take a few minutes to complete this survey and share your experience with us at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx).

Sincerely,

Laurie A. Stevenson  
Director

Enclosed: Preliminary SWAP Assessment

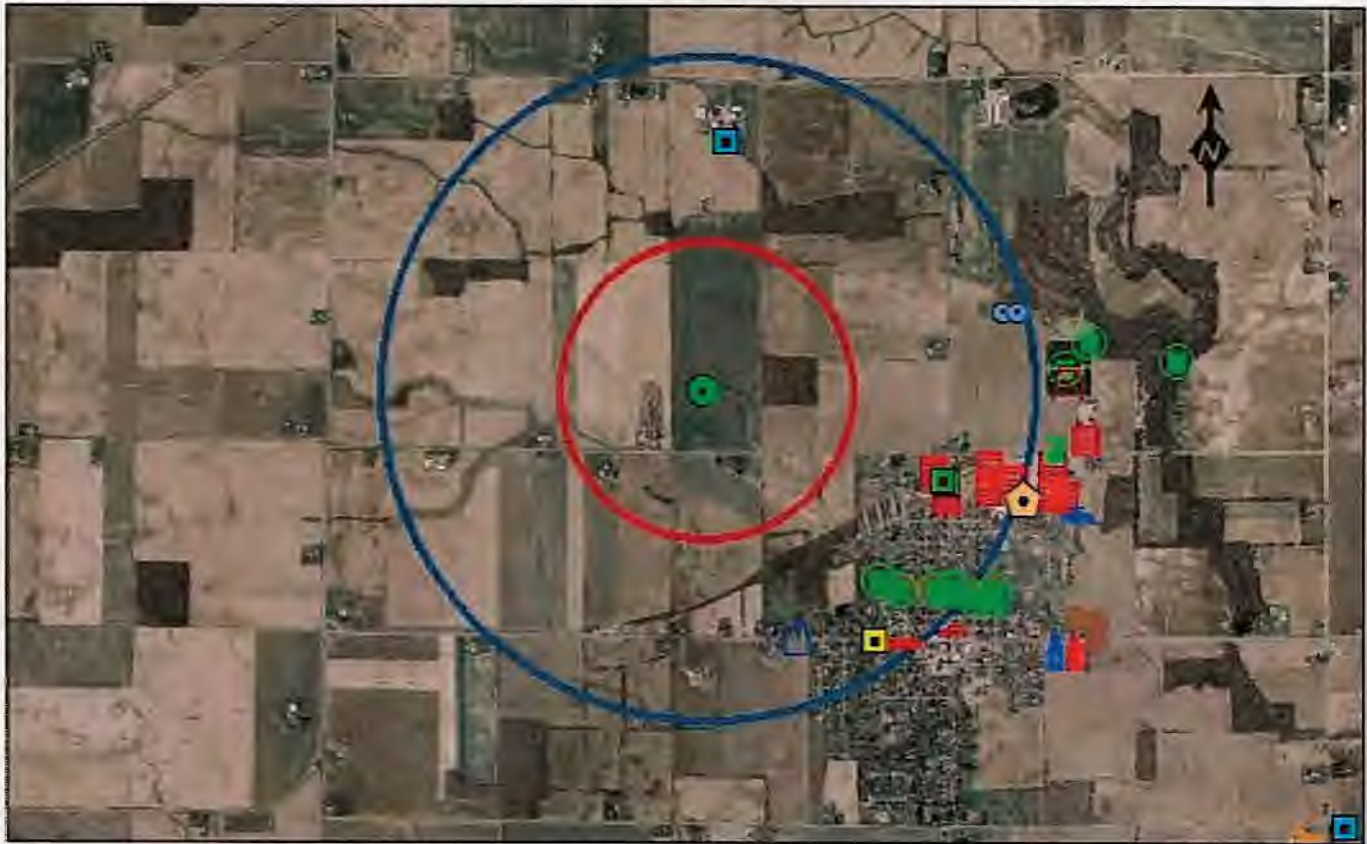
cc: Ortman Drilling, Inc., 241 300 W, Kokomo, IN 46901  
Fulton County Health Department

ec: Ed Kidston, Artesian of Pioneer  
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Susan Schell, DDAGW – CO  
Ann Fischbein, Legal – CO  
Colin Bennett, Legal – CO  
Heather Lauer, PIC – CO  
Jim Raab, ODNR




# Preliminary SWAP Assessment Artesian of Pioneer OH2637914



## Legend

-  Above Ground Storage Tank
-  Animal Feeding - CAFO
-  Auto Repair/Body Shop
-  Auto/Boat/Camper Dealer
-  Combined Sewer Overflow
-  Drinking Water Treatment Plant
-  Farm Chemical Storage/Distribution/Production
-  Farm Equipment Storage/Repair/Sales
-  Funeral Home/Crematory
-  Garage/Municipal
-  Gas Station: Active
-  Groundwater Impact
-  Metal Fabricator/Foundry
-  Metalworking/Machine Shop/Plating/Welding Facility
-  Recycling Facility
-  Underground Storage Tank: Leaking
-  Underground Storage Tank: Non-Leaking
-  Wastewater Treatment Facility
-  Well: Oil & Gas
-  PWS Active Wells
-  Inner Management Zones
-  Source Water Protection Areas

 Proposed PWS well (approx.)

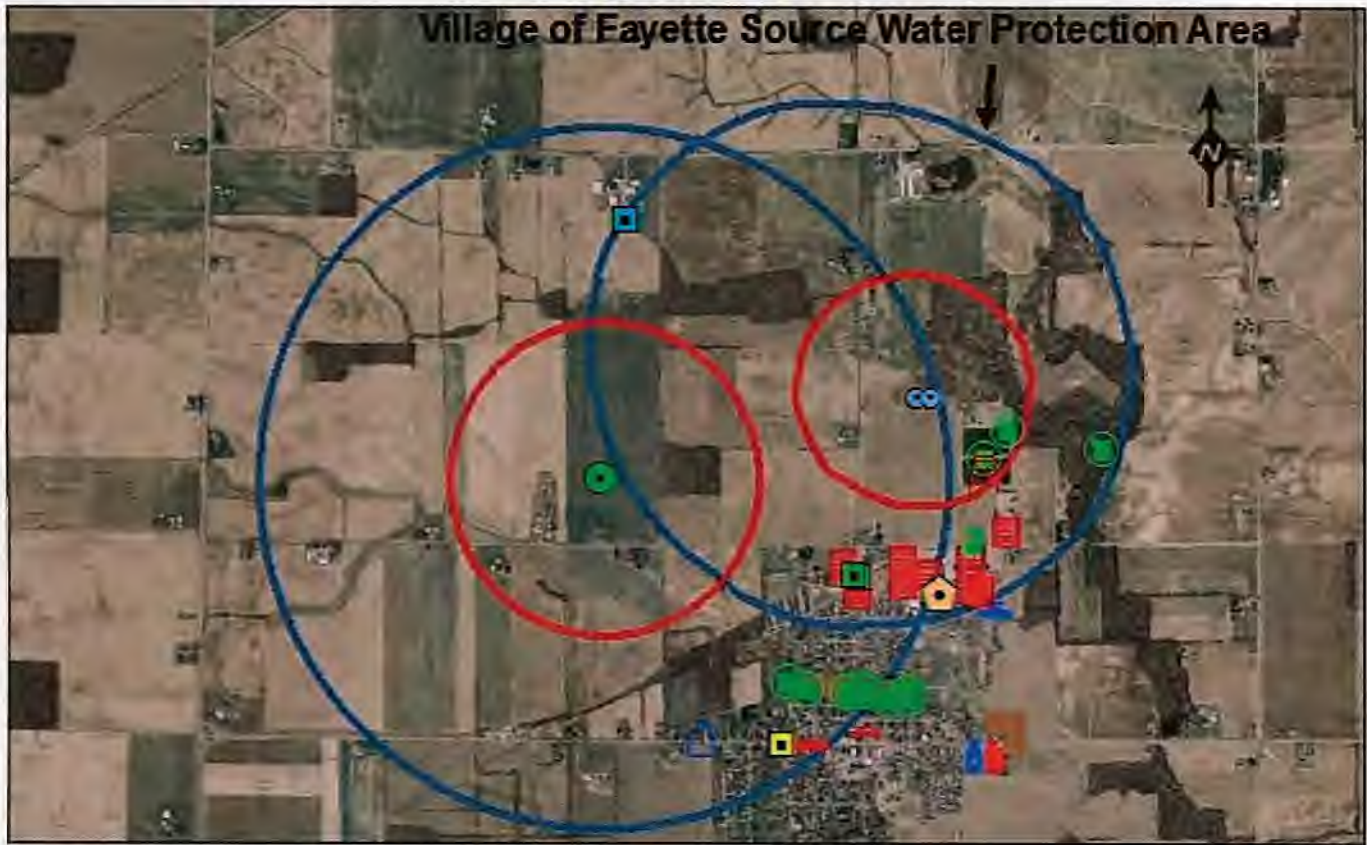
0 625 1,250 2,500 3,750 5,000  
Feet




January 4, 2019



# Preliminary SWAP Assessment Artesian of Pioneer OH2637914



## Legend

 Proposed PWS well (approx.)

-  Above Ground Storage Tank
-  Auto Repair/Body Shop
-  Auto/Boat/Camper Dealer
-  Combined Sewer Overflow
-  Drinking Water Treatment Plant
-  Farm Chemical Storage/Distribution/Production
-  Farm Equipment Storage/Repair/Sales
-  Funeral Home/Crematory
-  Garage/Municipal
-  Gas Station: Active
-  Groundwater Impact
-  Metal Fabricator/Foundry
-  Metalworking Machine Shop/Plating/Welding Facility
-  Recycling Facility
-  Underground Storage Tank: Leaking
-  Underground Storage Tank: Non-Leaking
-  Wastewater Treatment Facility
-  Well: Oil & Gas
-  PWS Active Wells
-  Inner Management Zones
-  Source Water Protection Areas

0 600 1,200 2,400 3,600 4,800  
Feet



January 8, 2019