



**PHASE 1 ENVIRONMENTAL SITE  
ASSESSMENT**

Wood Duck Solar Project—Barren  
County, Kentucky

Reconnaissance Date  
December 5–8, 2022

March 2023

Prepared for:



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The conclusions in the Report titled **Phase 1 Environmental Site Assessment, Wood Duck Solar Project—Barren County, Kentucky** are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

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<sup>1</sup> **Environmental Professional Statement.** We declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 Code of Federal Regulations (CFR) 312.10. Stantec has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Project Area. Stantec has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.





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## Acronyms / Abbreviations

|              |   |
|--------------|---|
| ACM          | Asbestos-containing material                  |
| AST          | Aboveground Storage Tank                      |
| ASTM         | American Society of Testing and Material      |
| CREC         | Controlled Recognized Environmental Condition |
| ERIS         | Environmental Risk Information Services       |
| ESA          | Environmental Site Assessment                 |
| FEMA         | Federal Emergency Management Agency           |
| FIRM         | Flood Insurance Rate Map                      |
| HREC         | Historical Recognized Environmental Condition |
| LBP          | Lead-based paint                              |
| PCB          | Polychlorinated Biphenyl                      |
| pCi/L        | picocuries per liter                          |
| Project      | Wood Duck Solar Project                       |
| Project Area | A 2,117-Acre Site in Barren County Resource   |
| RCRA         | Conservation and Recover Act Recognized       |
| REC          | Environmental Conditions                      |
| USDA         | US Department of Agriculture                  |
| USEPA        | US Environmental Protection Agency            |
| UST          | Underground Storage Tank                      |
| VEC          | Vapor Encroachment Condition                  |



## Executive Summary

### General Information

|                              |  |
|------------------------------|--|
| <b>Project Information:</b>  | Approximately 2,117 acres across 28 parcels                        |
| <b>Site Information:</b>     | Wood Duck Solar—Barren County, Kentucky                            |
| <b>Reconnaissance Dates:</b> | December 5-8, 2022   |
| <b>Site Assessors:</b>       | Kelsey Cleve, Carinne Johnston, Corbin Hoffmann, and Jonathan Hess |

### Findings and Conclusions Summary

Stantec performed this Phase I Environmental Site Assessment (ESA) for the Wood Duck Solar Project (Project) that consists of a 2,117-acre site located in Barren County (Project Area) in conformance with the scope and limitations of American Society of Testing and Material (ASTM) Standard Practice E 2247-16. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This ESA did not reveal evidence of recognized environmental conditions (RECs) in connection with the Project or the Project Area.

### Significant Data Gap Summary

According to ASTM Standard Practice E 2247-16, data gaps are only significant if “other information and/or professional experience raise reasonable concerns involving the data gap.” Stantec did not identify any significant data gaps during the performance of this Phase I ESA. Table ES-1 presents a list of common sources of *significant data gaps*, and Stantec’s experience with them for this Phase I ESA.

**Table ES-1      Significant Data Gap Summary**

| Report Section |                                     | Description   |
|----------------|-------------------------------------|---|
| 2.4            | Current Uses of the Properties      | No significant data gap identified.   |
| 3.0            | User-Provided Information           | No significant data gap identified, the user (Geenex Solar) did not provide title records or any specialized knowledge of environmental issues. |
| 4.1            | Standard Environmental Records      | No significant data gap identified.   |
| 4.2            | Physical Setting Sources            | No significant data gap identified.   |
| 4.3            | Historical Records Sources          | No significant data gap identified.   |
| 5.1            | Methodology and Limiting Conditions | No significant data gap identified.   |
| 6.0            | Interviews                          | No significant data gap identified,   |



## Findings

### ***Recognized Environmental Condition***

A *recognized environmental condition*, or REC, refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property resulting from its release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

Stantec did not identify any RECs within the Project Area while conducting this Phase 1 ESA.

### ***Controlled Recognized Environmental Condition***

A *controlled recognized environmental condition* (CREC) refers to a REC that resulted from a past release of hazardous substances or petroleum products and that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products, allowing it to remain in place subject to the implementation of required controls.

Stantec did not identify any CRECs within the Project Area while conducting this Phase 1 ESA.

### ***Historical Recognized Environmental Condition***

A *historical recognized environmental condition* (HREC) refers to a past release of any hazardous substances or petroleum products occurring in connection with the Project Area and has been addressed to the satisfaction of the applicable regulatory authority or meets unrestricted use criteria established by a regulatory authority, without subjecting the Project Area to any required controls.

Stantec did not identify any HRECs at the Project Area while conducting this Phase 1 ESA.

### ***Environmental Issue***

An *environmental issue* refers to environmental concerns identified by Stantec warranting further discussion but not qualifying as RECs.

Stantec observed aboveground storage tanks, abandoned structures, electrical equipment (transformers), and debris piles at various locations within the Project Area. These conditions are considered to be *de minimis* and do not meet the criteria to be considered a REC; they are discussed further in Section 5.

## Conclusions, Opinions and Recommendations

Stantec performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E2247-16 in the Project Area located in Barren County, Kentucky. Any exceptions to, or deletions from, are described in Section 1.4 of this report.

This Phase 1 ESA did not reveal evidence of RECs within the Project Area. Based on the conclusions of this Phase 1 ESA, no further investigation of the Project Area is warranted. However, Stantec recommends that some of the *de minimis* conditions, such as abandoned materials and debris, identified within the Project Area should be removed.



# 1 Introduction

## 1.1 Purpose

Stantec conducted this Phase I Environmental Site Assessment (ESA) for the Wood Duck Solar Project (Project) to identify recognized environmental conditions (RECs) and certain potential environmental conditions outside the scope of American Society of Testing and Material (ASTM) Standard Practice E 2247-16 at the time of the site reconnaissance. The Project consists of a 2,117-acre site located in Barren County (Project Area). This report documents Stantec's findings, opinions, and conclusions of the Phase I ESA.

## 1.2 Scope

Stantec conducted this Phase I ESA in general accordance with the ASTM Standard Practice E 2247-16, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions, or exceptions to ASTM Standard Practice E 2247-16 are noted below or in the corresponding sections of this report (ASTM 2016). The scope of this Phase I ESA included an evaluation of the following elements:

- Physical setting characteristics of the Project Area through a review of referenced sources such as topographic maps and geologic, soils, and hydrologic reports.
- Use of the Project Area, adjoining properties, and surrounding area through a review of referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports, and interviews.
- Observations and interviews regarding current Project Area use and conditions, including the use, treatment, storage, disposal, or generation of hazardous substances, petroleum products, hazardous wastes, non-hazardous solid wastes, and wastewater.
- Use of adjoining and surrounding properties and the likely effects of known or suspected releases of hazardous substances or petroleum products on the Project Area.
- Information referenced in environmental agency databases and local environmental records within the specified approximate minimum search distance from the Project Area.

The scope of the Phase 1 ESA also included consideration of the following environmental issues or conditions that are beyond the scope of ASTM Standard Practice E 2247-16:

- Visual observation of suspected asbestos-containing material (ACM) within the Project Area. Visual observation consists of providing an opinion about the condition of suspected ACM within the Project Area based upon visual examination during the site reconnaissance. Limited surveys are performed to identify the presence of readily accessible, suspected ACM and develop recommendations as to the need for a more thorough survey and/or an operations and maintenance program.





- Radon document review, consisting of the review of published radon data regarding the potential for elevated levels of radon gas in the area surrounding the Project Area.
- Visual observation of lead-based paint (LBP), consisting of providing an opinion about the potential for LBP based on the construction date of buildings within the Project Area and visual examination of the condition of suspected LBP.
- Floodplain document review, consisting of a review of a reasonably ascertainable flood plain map of the surrounding area to note whether the Project Area is identified as being located within a floodplain.

### 1.3 Significant Assumption

Any assumptions in this report were not considered as having significant impact on the determination of RECs associated with the Project Area.

### 1.4 Limitations and Exceptions

Stantec prepared this Phase I ESA report using reasonable efforts to identify RECs associated with hazardous substances or petroleum products within the Project Area. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

ASTM Standard Practice E 2247-16 recognizes inherent limitations for Phase I ESAs, including, but not limited to, the following:

- *Uncertainty Not Eliminated*—A Phase I ESA cannot eliminate uncertainty regarding the potential for RECs in connection with any property.
- *Not Exhaustive*—A Phase I ESA is not an exhaustive investigation of the Project Area and environmental conditions on such property.
- *Past Uses of the Property*—Phase I requirements only require review of standard historical sources at 5-year intervals; therefore, past uses of the Project Area at fewer than 5-year intervals may not be discovered.

Users of this report may refer to ASTM Standard Practice E 2247-16 for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews, and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques that are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.



Stantec makes no representation or warranty that the past or current operations in the Project Area are, or have been, in compliance with all applicable federal, state, and local laws, regulations, and codes. This report does not warrant against future operations or conditions or warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Stantec is not responsible for consequences or conditions arising from facts not fully disclosed to Stantec while its staff conducted this Phase 1 ESA.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Stantec's observations or other credible sources that Stantec staff reviewed while conducting this Phase 1 ESA. Stantec shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or to otherwise fail to maintain or produce accurate or complete records.

Stantec used reasonable efforts to identify evidence of aboveground storage tanks (ASTs) and underground storage tanks (USTs) and ancillary equipment within the Project Area while conducting this Phase 1 ESA. *Reasonable efforts* were limited to observing accessible areas, reviewing referenced public records, and conducting interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials, and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the Phase I ESA findings, opinions, and conclusions, which are limited by the scope, schedule demands, cost constraints, accessibility limitations, and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board Statement No. 143 and Interpretation No. 47, Sarbanes/Oxley Act, or any United States Securities and Exchange Commission reporting obligations and may not be used for such purposes in any form without the express written permission of Stantec.

Stantec is not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Project Area in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

The Environmental Professional Statement on the Document Information page in the front matter of this report does not "certify" the findings contained in this report and is not a legal opinion of the Environmental Professional. The Environmental Professional Statement is intended to document Stantec's opinion that an individual meeting the qualifications of an Environmental Professional was involved in conducting the Phase I ESA and that the activities performed by, or under the supervision of, the Environmental Professional were performed in conformance with the standards and practices set forth in 40 Code of Federal Regulations (CFR) Part 312 per the methodology in ASTM Standard Practice E 2247-163 and the scope of work for this Phase I ESA.

Per ASTM Standard Practice E 2247-16, Section 6, *User Responsibilities*, the user of this Phase I ESA has specific obligations for performing tasks that will help identify the possibility of RECs in connection with the Project Area. Failure by the user to fully comply with the requirements may impact the ability to



use this report to help qualify for Landowner Liability Protections under the Comprehensive Environmental Response, Compensation, and Liability Act. Stantec makes no representations or warranties regarding a user's qualification for protection under any federal, state, or local laws, rules, or regulations.

In accordance with the ASTM Standard Practice E 2247-16, this report is presumed to be valid for a 6-month period. If the report is older than 6 months, the following information must be updated for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge, and (5) environmental liens search. Reports older than 1 year may not meet the ASTM Standard Practice 2247-16; therefore, the entire report must be updated to reflect current conditions and property-specific information.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

## **1.5 Special Terms and Conditions (User Reliance)**

This report is for the use and benefit of, and may be relied upon by, Geenex Solar, its affiliates, and third parties authorized in writing by Geenex Solar and Stantec, including the lender(s) in connection with a secured financing of the Project Area, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report and with the acknowledgment that actual Project Area conditions may change with time and that hidden conditions that were not discovered within the authorized scope of the Phase I ESA may exist within the Project Area. Any use by or distribution of this report to third parties, without the express written consent of Stantec, is at the sole risk and expense of such third party.

Stantec makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and related information. No other warranties are made to any third party, either expressed or implied. Unless otherwise agreed upon in writing by Stantec and a third party, Stantec's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a total maximum amount of \$50,000.



## 2 Site Description

### 2.1 Parcel Description

The Project Area is located outside the municipal limits of the Glasgow. A site vicinity map is presented in Appendix A. The Project Area consists of the following 28 parcels in Barren and Edmonton Counties, as presented in Table 2-1:

**Table 2-1 Barren County Parcels**

| Parcel PIN | Owner Name          | Approximate Acres |
|------------|---------------------|-------------------|
| 32-21      | Mikel D. Bellamy    | 24                |
| 20-2BB     | Joe B. Gray II      | 59.79             |
| 19-6E      | Daniel Lee Deckard  | 145.84            |
| 32-16      | Mikel D. Bellamy    | 67.75             |
| 32-16A     | Mikel D. Bellamy    | 57.18             |
| 32-16B     | Mikel D. Bellamy    | 9.67              |
| 32-17      | Mikel D. Bellamy    | 65.51             |
| 32-17A     | Mikel D. Bellamy    | 10.29             |
| 32-20B     | Kathy Simpson       | 25.27             |
| 32-21      | Mikel D. Bellamy    | 333               |
| 32-21B     | Mikel D. Bellamy    | 1.84              |
| 32-22      | Michael Glenn Baise | 69.09             |
| 32-39      | Luther J. Garrett   | 17.02             |
| 32-41C     | Luther J. Garrett   | 158.92            |
| 19-19      | Mikel D. Bellamy    | 106.30            |
| 19-22      | Leroyce Burks       | 81.06             |
| 19-31      | Edwin T. Burks      | 128.21            |
| 20-5       | Darrell L. Burks    | 140.52            |
| 33-7A      | Savers Storage LLC  | 53.42             |
| 19-17B     | Mikel D. Bellamy    | 98                |
| 19-17A     | Mikel D. Bellamy    | 0.61              |
| 19-18      | Jonluke Vincent     | 59.84             |
| 19-10      | Mark Bellamy        | 141               |
| 19-3       | Roger Cline         | 48.56             |
| 19-5       | Roger Cline         | 25.22             |
| 19-2       | Mark Bellamy        | 73.20             |
| 19-8       | Billy Hudson        | 69.49             |
| 20-12      | David Bruce Witty   | 46.96             |



## 2.2 Current Use of the Property

The Project Area is designated for agricultural use and is considered a legal use in its current configuration. Vehicular access to the Project Area can be accessed from Cumberland Parkway that bisects the Project Area off Highway 65.

Photographs of the Project Area are provided in Appendix B, *Project Area Photographs*.

## 2.3 Description of Property Improvements

Table 2-2 provides general descriptions of the Project Area improvements.

**Table 2-2 Property Improvements**

| Land Cover Type                          | Percent of Property  |
|--|--|
| Approximate % Unimproved Areas           | 23.9%  |
| Approximate % Agricultural Areas         | 75.4%  |
| Approximate % Developed Areas            | <1%  |
| Approximate % Surface Water and Wetlands | <1%  |
| Number of Occupied Buildings             | A total of 15 residences are located within the Project Area   |
| Unoccupied Buildings/Spaces/Structures   | A total of 41 outbuildings associated with agriculture, including sheds, garages, green houses, barns, and silos, are located within the Project Area. |
| General Buildings Description            | The Project Area is highly agricultural with supporting structures and residences throughout.  |

## 2.4 Current Uses of Adjoining Properties

In the immediate vicinity of the Project Area, land use is primarily agriculture, undeveloped woodlands, and residential.



### **3 User-Provided Information**

The following section summarizes information (if any) provided by Geenex Solar (the user) regarding the Phase I ESA. Documentation may be found where referenced in this report.

#### **3.1 Title Records**

The user did not provide title record information for the Project Area.

#### **3.2 Environmental Liens or Activity and Use Limitations**

Review of environmental liens and activity and use limitation documents was not part of the scope for this Phase I ESA.

#### **3.3 Specialized Knowledge**

The user did not provide specialized knowledge regarding RECs associated with the Project Area.

#### **3.4 Significant Valuation Reduction for Environmental Issues**

The user did not provide information regarding a significant valuation reduction for environmental issues associated with the Project Area.

#### **3.5 Owner, Property Manager, and Occupant Information**

The user provided Stantec with site access and current landowner information.

#### **3.6 Reason for Performing Phase I ESA**

The user indicated that the Phase I ESA was being completed prior to a financial transaction regarding the Project Area.

#### **3.7 Other User Provided Documents**

The user and property owners were provided an environmental questionnaire concerning the Project Area. To date, Stantec has received **TBD** completed questionnaires from property owners. No RECs were identified in any of the responses. Chemical use, consistent with agricultural practices (i.e., gasoline for equipment and pesticides for crops) was reported, but no environmental concerns were disclosed. No other documents were supplied to Stantec as described in ASTM Standard Practice E 2247-16. The completed questionnaires do not materially change the findings of the Phase I ESA. The completed questionnaires are provided in Appendix D.



## 4 Records Review

### 4.1 Standard Environmental Records

The regulatory agency databases report discussed in this section was provided by Environmental Risk Information Services (ERIS) of Toronto, Ontario, and was reviewed for information regarding reported releases of hazardous substances and petroleum products on or near the Project Area. Stantec also reviewed the *unmappable* (also referred to as *orphan*) listings in the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence but potentially occur in the general area of the Project Area based on the partial street address, city, or zip code. Any unmappable site that Stantec identified as being within the approximate minimum search distance from the Project Area, based on the site reconnaissance and/or cross-referencing to mapped listings, is discussed in this section. The complete regulatory agency database reports are provided in Appendix E. Table 4-1 provides a summary of the findings of the databases reviewed (ERIS 2022a).

**Table 4-1 Summary of Federal, State, and Tribal Database Findings**

| Database ID    | Database Name  | Search Radius (Mile) | Within Subject Property | Within 1 Mile of Subject Property |
|----------------|--|----------------------|-------------------------|-----------------------------------|
| <b>Federal</b> |  |                      |                         |                                   |
| DOE FUSRAP     | Formerly Utilized Sites Remedial Action Program  | 1                    | 0                       | 0                                 |
| NPL            | National Priority List   | 1                    | 0                       | 0                                 |
| PROPOSED NPL   | National Priority List—Proposed  | 1                    | 0                       | 0                                 |
| DELETED NPL    | Deleted National Priority List   | 0.5                  | 0                       | 0                                 |
| SEMS           | Superfund Enterprise Management System—List 8R Active Site Inventory   | 0.5                  | 0                       | 0                                 |
| ODI            | Inventory of Open Dumps  | 0.5                  | 0                       | 0                                 |
| SEMS ARCHIVE   | Superfund Enterprise Management System—List 8R Archive Sites   | 0.5                  | 0                       | 0                                 |
| CERCLIS        | Comprehensive Environmental Response, Compensation and Liability Information System                                    | 0.5                  | 0                       | 0                                 |
| IODI           | EPA Report on the Status of Open Dumps on Indian Lands   | 0.5                  | 0                       | 0                                 |
| CERCLIS NFRAP  | Comprehensive Environmental Response, Compensation and Liability Information System—No Further Remedial Action Planned | 0.5                  | 0                       | 0                                 |
| CERCLIS LIENS  | Comprehensive Environmental Response, Compensation and Liability Information System—Liens                              | PO                   | 0                       | N/A                               |
| RCRA CORRACTS  | Resource Conservation and Recovery Act—Corrective Action   | 1                    | 0                       | 0                                 |



| Database ID       | Database Name  | Search Radius (Mile) | Within Subject Property | Within 1 Mile of Subject Property |
|-------------------|--|----------------------|-------------------------|-----------------------------------|
| RCRA TSD          | Resource Conservation and Recovery Act non-CORRACTS Treatment, Storage, and/or Disposal Facilities | 0.5                  | 0                       | 0                                 |
| RCRA LQG          | Resource Conservation and Recovery Act—Generator List  | 0.25                 | 0                       | 0                                 |
| RCRA SQG          | Resource Conservation and Recovery Act—Small Quantity Generators List                              | 0.25                 | 0                       | 0                                 |
| RCRA VSQG         | Resource Conservation and Recovery Act—Very Small Quantity Generators List                         | 0.25                 | 0                       | 0                                 |
| RCRA NON GEN      | Resource Conservation and Recovery Act—Non-Generators  | 0.25                 | 0                       | 0                                 |
| RCRA CONTROLS     | Resource Conservation and Recovery Act—Sites with Controls   | 0.5                  | 0                       | 0                                 |
| FED ENG           | Federal Engineering Controls   | 0.5                  | 0                       | 0                                 |
| FED INST          | Federal Institutional Controls   | 0.5                  | 0                       | 0                                 |
| LUCIS             | Land Use Control Information System  | 0.5                  | 0                       | 0                                 |
| NPL IC            | Institutional Control Boundaries at National Priority List Sites                                   | 0.5                  | 0                       | 0                                 |
| ERNS 1982 TO 1986 | Emergency Response Notification System—1982 to 1986  | PO                   | 0                       | N/A                               |
| ERNS 1987 TO 1989 | Emergency Response Notification System—1987 to 1989  | PO                   | 0                       | N/A                               |
| ERNS              | Emergency Response Notification System   | PO                   | 0                       | N/A                               |
| FED BROWNFIELDS   | The Assessment, Cleanup and Redevelopment Exchange System Brownfield Database                      | 0.5                  | 0                       | 0                                 |
| FEMA UST          | Underground Storage Tank Listing   | 0.25                 | 0                       | 0                                 |
| FRP               | Facility Response Plan   | 0.25                 | 0                       | 0                                 |
| DELISTED FRP      | Delisted Facility Response Plans   | 0.25                 | 0                       | 0                                 |
| HIST GAS STATIONS | Historical Gas Stations  | 0.25                 | 0                       | 0                                 |
| REFN              | Petroleum Refineries   | 0.25                 | 0                       | 0                                 |
| BULK TERMINAL     | Petroleum Product and Crude Oil Rail Terminals   | 0.25                 | 0                       | 0                                 |
| SEMS LIEN         | Superfund Enterprise Management System—Lien on Property  | PO                   | 0                       | N/A                               |
| SUPERFUND ROD     | Superfund Decision Documents   | 1                    | 0                       | 0                                 |
| <b>State</b>      |  |                      |                         |                                   |
| SHWS              | Comprehensive Environmental Response, Compensation, and Liability Act—Uncontrolled Sites File List | 1                    | 0                       | 6                                 |
| DELISTED SHWS     | Delisted Hazardous Substance Cleanup Fund  | 1                    | 0                       | 0                                 |





| Database ID                                     | Database Name  | Search Radius (Mile) | Within Subject Property | Within 1 Mile of Subject Property |
|---|--|----------------------|-------------------------|-----------------------------------|
| SWF/LF  | Indiana Permitted Solid Waste Facilities   | 0.5                  | 0                       | 0                                 |
| HIST LANDFILL                                   | Historical Landfills   | 0.5                  | 0                       | 0                                 |
| SB193   | SB193 Branch Site Inventory List   | 0.5                  | 0                       | 0                                 |
| PSTEAF  | Ranking List for UST Facilities  | 0.5                  | 0                       | 0                                 |
| UST   | Underground Storage Tanks  | 0.25                 | 0                       | 0                                 |
| DELISTED STORAGE TANK                           | Delisted Storage Tank  | 0.25                 | 0                       | 0                                 |
| ENG   | Sites with Engineering Controls  | 0.5                  | 0                       | 0                                 |
| INST  | Sites with Institutional Controls  | 0.5                  | 0                       | 0                                 |
| VCP   | Voluntary Cleanup Program Sites  | 0.5                  | 0                       | 0                                 |
| BROWNFIELD INV                                  | Kentucky Brownfield Inventory  | 0.5                  | 0                       | 0                                 |
| <b>Tribal</b>                                   |  |                      |                         |                                   |
| INDIAN LUST                                     | Leaking Underground Storage Tanks on Indian Lands  | 0.5                  | 0                       | 0                                 |
| INDIAN UST                                      | Underground Storage Tanks on Indian Lands  | 0.25                 | 0                       | 0                                 |
| DELISTED ILST                                   | Delisted Tribal Leaking Storage Tanks  | 0.5                  | 0                       | 0                                 |
| DELISTED IUST                                   | Delisted Tribal Underground Storage Tanks  | 0.25                 | 0                       | 0                                 |
| <b>Additional Environmental Records—Federal</b> |  |                      |                         |                                   |
| FINDS/FRS                                       | Facility Registry Service/Facility Index   | PO                   | 0                       | 0                                 |
| TRIS  | Toxics Release Inventory Program   | PO                   | 0                       | N/A                               |
| PFAS TRI  | Per fluorinated Alkyl Substances Releases  | 0.5                  | 0                       | 0                                 |
| PFAS NPL  | PFOA/PFOS Contaminated Sites   | 0.5                  | 0                       | 0                                 |
| PFAS WATER                                      | Per fluorinated Alkyl Substances Water Quality   | 0.5                  | 0                       | 0                                 |
| PFAS SSEHRI                                     | Social Science Environmental Health Research Institute PFAs Contamination Sites            | 0.5                  | 0                       | 0                                 |
| ERNS PFAS                                       | National Response Center PFAS Spills   | 0.5                  | 0                       | 0                                 |
| HMIRS   | Hazardous Materials Information Reporting System   | 0.125                | 0                       | 0                                 |
| NCDL  | National Clandestine Drug Labs   | 0.125                | 0                       | 1                                 |
| TSCA  | Toxic Substances Control Act   | 0.125                | 0                       | 0                                 |
| HIST TSCA                                       | Historic Toxic Substances Control Act  | 0.125                | 0                       | 0                                 |
| FTTS ADMIN                                      | Federal Insecticide, Fungicide, and Rodenticide Act Administrative Case Listing            | PO                   | 0                       | N/A                               |
| FTTS INSP                                       | Federal Insecticide, Fungicide, and Rodenticide Act Administrative Inspection Case Listing | PO                   | 0                       | N/A                               |
| PRP   | Potentially Responsible Parties List   | PO                   | 0                       | N/A                               |
| SCRD DRYCLEANER                                 | State Coalition for Remediation of Drycleaners Listing                                     | 0.5                  | 0                       | 0                                 |
| ICIS  | Integrated Compliance Information System   | PO                   | 0                       | N/A                               |



| Database ID                                   | Database Name  | Search Radius (Mile) | Within Subject Property | Within 1 Mile of Subject Property |
|---|--|----------------------|-------------------------|-----------------------------------|
| FED DRYCLEANERS                               | Drycleaner Facilities—Enforcement and Compliance History Online                          | 0.25                 | 0                       | 0                                 |
| DELISTED FED DRY                              | Delisted Drycleaner Facilities -Integrated Compliance Information System                 | 0.25                 | 0                       | 0                                 |
| FUDS  | Formerly Used Defense Sites  | 1                    | 0                       | 0                                 |
| FORMER NIKE                                   | Former Military Nike Missile Sites   | 1                    | 0                       | 0                                 |
| PIPELINE INCIDENT                             | Pipeline and Hazardous Materials Safety Administration—Pipeline Safety Flagged Incidents | PO                   | 0                       | N/A                               |
| MLTS  | Material Licensing Tracking System   | PO                   | 0                       | N/A                               |
| HIST MLTS                                     | Historic Material Licensing Tracking System Sites  | PO                   | 0                       | N/A                               |
| MINES   | Mines Master Index File  | 0.25                 | 0                       | 0                                 |
| SMCRA   | Surface Mining Control and Reclamation Act Sites   | 1                    | 0                       | 0                                 |
| MRDS  | Mineral Resource Data System   | 1                    | 0                       | 0                                 |
| URANIUM                                       | Uranium Mill Tailings Radiation Control Act Sites  | 1                    | 0                       | 0                                 |
| ALT FUELS                                     | Alternative Fueling Stations   | 0.25                 | 0                       | 0                                 |
| AFS   | Air Facility System  | POI                  | 0                       | 0                                 |
| CONSENT DECREES                               | Superfunds Consent Decrees   | 0.25                 | 0                       | 0                                 |
| AFS   | Air Facility System  | PO                   | 0                       | N/A                               |
| SSTS  | Registered Pesticide Establishments  | 0.25                 | 0                       | 0                                 |
| PCBT  | Polychlorinated Biphenyl Transformers  | 0.5                  | 0                       | 0                                 |
| PCB   | Polychlorinated Biphenyl Notifiers   | 0.5                  | 0                       | 0                                 |
| <b>Additional Environmental Records—State</b> |  |                      |                         |                                   |
| SPILLS  | Spills Incidents Database  | 0.125                | 1                       | 9                                 |
| CDL   | Clandestine Drug Laboratory Locations  | PO                   | 0                       | N/A                               |
| Mine  | Permitted Mine Boundaries  | 1                    | 0                       | 0                                 |

Source: ERIS 2022a

#### 4.1.1 PROJECT AREA LISTINGS

The ERIS database query identified a total of 17 records contained within one record for the Project Area. Table 4-2 lists the records identified. The record identified as occurring with the Project Area is from the SPILLS database and is the Mike Baise Property (AI ID: 111289) (Parcel Lat / Long 37.048196, -86.053622). The record is in regard to open burning of a brush pile and a release of 2.5 micron particular matter that was reported to the Barren County, Bowling Green Regional Office. This record is listed as closed—no action necessary and does not rise to the level of a REC or *de minimis* conditions. Several orphan records appear to be at the same location based upon the description provided. The orphan records also relate to open burning complaints and are marked as closed—no



action necessary and/or mitigated. The remaining records detailed in Table 4-2 do not rise to the level of being a REC.



**Table 4-2 Summary of Relevant Database Records and Orphan Sites**

| Map Key # | Database   | Record Name                           | Location  | Distance (Mile) | Summary                                   | Status                     | Environmental Concern (Yes/No) |
|-----------|------------|---------------------------------------|---|-----------------|---|----------------------------|--------------------------------|
| 1         | SPILLS     | Mike Baise Property (AI ID: 111289)   | 6915 Dripping Springs Road in Barren County                     | 0.00            | Air release particulate matter 2.5        | Closed                     | No                             |
| 2         | SPILLS     | Jeremy Reece—Reece Farms LLC          | Hwy 68/80 @ Rick Road   | 0.01            | Diesel release 100 to 125 gallons         | Closed                     | No                             |
| 3         | SPILLS     | Ralph Rizzitiello                     | 3303 Mills Town Road—Off Route 255 about 2 miles from Park City | 0.01            | Creek dammed to make pond                 | Closed                     | No                             |
| 4         | SPILLS     | Anne Stephens                         | 6744 Dripping Springs Road                                      | 0.01            | Broken fluorescent lights (mercury vapor) | Closed                     | No                             |
| 5         | SPILLS     | Glasgow Water Plant (AI ID: 76)       | 10787 New Bowling Green Road                                    | 0.01            | Water line leak                           | Closed                     | No                             |
| 6         | SPILLS     | Robert Morgan Trucking                | Cumberland PKWY 3 mile marker eastbound                         | 0.02            | Diesel release from accident              | Closed                     | No                             |
| 7         | SPILLS     | Bobby Martin Property (AI ID: 165483) | To the left of 6711 Dripping Springs Road behind a trailer home | 0.02            | Open burning report                       | Closed                     | No                             |
| 8         | SPILLS     | JB Hunt                               | Cumberland Pkwy. 2.5 mile marker eastbound                      | 0.02            | Spilled chicken feed                      | Closed                     | No                             |
| 9         | SHWS       | Bon Ayr Toll Plaza                    | Louie B Nunn Pkwy   | 0.03            | State Superfund Bon Ayr Toll Plaza        | Closed—no action necessary | No                             |
| 10        | SPILLS     | Glasgow Water Plant (AI ID: 76)       | 700 Block of Rick Road  | 0.03            | Water line leak                           | Closed                     | No                             |
| 11        | SPILLS     | Steven Doty Residence (AI ID: 123908) | 6921 Dripping Springs Road                                      | 0.04            | Report of open burning                    | Closed                     | No                             |
| 12        | NCDL, SHWS | Unknown/Bobby Martin Property         | 6622 Dripping Springs Road                                      | 0.07            | NCDL Record/State Superfund—method lab    | Restored                   | No                             |



Phase 1 Environmental Site Assessment, Wood Duck Solar Project—Barren County, Kentucky 4 Records Review

| Map Key # | Database     | Record Name                        | Location  | Distance (Mile)                   | Summary   | Status                     | Environmental Concern (Yes/No) |
|-----------|--------------|------------------------------------|---|-----------------------------------|---|----------------------------|--------------------------------|
| 13        | SHWS         | I-65 Tack Oil Spill—Edmonson Co    | I-65 S mile marker 44                             | 0.39                              | Oil spill/State Superfund   | Closed—restored            | No                             |
| 14        | SHWS         | I-65 Petroleum Spill—Edmonson Co   | I-65 S mile marker 43.8                           | 0.40                              | Petroleum spill/State Superfund   | Closed—restored            | No                             |
| 15        | SHWS         | Bobby Martin Property              | 6100 Dripping Springs Road                        | 0.49                              | Meth lab/State Superfund  | Closed—restored            | No                             |
| 16        | SHWS         | Marlene West Property              | 635 Oak Hill School Road                          | 0.54                              | Meth Lab/State Superfund  | Closed—restored            | No                             |
| Orphan    | RCRA NON GEN | Central SOYA Company Inc.          | Highway 255, Park City, KY                        | N/A                               | Compliance evaluation inspection—no violations.   | No violations              | No                             |
| Orphan    | SPILLS       | Mike Baise Property                | Near 6744 Dripping Springs Road, Smiths Grove, KY | Appears to be within Project Area | Open burning report   | Closed—mitigated           | No                             |
| Orphan    | SPILLS       | Integrity Feeds LLC                | Feed Mill at Hwy 255 in Park City                 | N/A                               | Dumping of feed   | Closed                     | No                             |
| Orphan    | SPILLS       | Unknown – Orphan Diesel Fuel Spill | KY 255 between I-65 and Park City                 | N/A                               | Diesel fuel spill—locations appear to be located north of Park City, KY                       | Closed—mitigated           | No                             |
| Orphan    | SPILLS       | Phillip Higginbotham               | Off Fairview Church Road—Rocky Hill Community     | N/A                               | Report of illegal dump—location in Rocky Hill, KY, is more than 2 miles from the Project Area | Closed—no action necessary | No                             |
| Orphan    | SPILLS       | Mike Baise Property                | Near 6744 Dripping Springs Road, Smiths Grove, KY | Appears to be within Project Area | Report of open burning  | Complete                   | No                             |



| Map Key # | Database | Record Name            | Location              | Distance (Mile)                   | Summary   | Status                     | Environmental Concern (Yes/No) |
|-----------|----------|------------------------|-----------------------|-----------------------------------|---|----------------------------|--------------------------------|
| Orphan    | SPILLS   | Denise Payne Property  | Glasgow, KY           | N/A                               | Report of open burning—appears to be well outside Project Area                                | Closed—managed/restored    | No                             |
| Orphan    | SPILLS   | Mike Baise Property    | Dripping Springs Road | Appears to be within Project Area | Report of open burning—appears to be same location as other reports for Mike Baise Properties | Closed—no action necessary | No                             |
| Orphan    | SPILLS   | Unknown                | Unknown               | N/A                               | Report of dead animals being thrown into natural drainage ditches                             | Completed                  | No                             |
| Orphan    | SPILLS   | Mike Baise Property    | Dripping Springs Road | Appears to be within Project Area | Report of open burning—appears to be same location as other reports for Mike Baise Properties | Closed—mitigated           | No                             |
| Orphan    | UST      | Diamond Caverns Market | Park City, KY         | N/A                               | Underground storage tank removal record   | No tank release detected   | No                             |



## 4.1.2 SITES OF CONCERN LISTINGS

Stantec did not identify any sites that would pose environmental concerns within or adjacent to the Project Area from the ERIS database report, and no additional investigation is recommended for the sites described in 4.1.1.

## 4.1.3 ORPHAN LISTINGS

The ERIS database report identified 11 unplotable or orphan listing for which location data are unknown. Database findings include one RCRA NON GEN record, 1 UST record, and 10 SPILLS records. Several of the orphan records appear to refer to the Mike Baise Property listed for other plotable records. None of the orphan sites identified rise to the level of a REC or pose an environmental concern.

## 4.1.4 STATE/FEDERAL ENVIRONMENTAL RECORDS

|                                 |   |
|---------------------------------|---|
| <b>Name of Agency:</b>          | US Environmental Protection Agency (USEPA) – Clean Ups in My Community Map (USEPA 2022)   |
| <b>Website:</b>                 | <a href="https://www.epa.gov/cleanups/cleanups-my-community#map">https://www.epa.gov/cleanups/cleanups-my-community#map</a>   |
| <b>Agency Address:</b>          | N/A   |
| <b>Agency Email:</b>            | N/A   |
| <b>Date of Contact:</b>         | January 2023  |
| <b>Method of Communication:</b> | N/A   |
| <b>Communication Summary:</b>   | The Kentucky Energy and Environment Cabinet does not publicly provide a map of cleanups and incidents for the state of Kentucky. In lieu of reviewing available state mapping, Stantec used the USEPA Clean Ups in My Community Mapper. No clean up, incidents, or facilities of concern were found to be in proximity to the Project Area. |

## 4.1.5 PUBLIC HEALTH DEPARTMENT

|                                 |  |
|---------------------------------|--|
| <b>Name of Agency:</b>          | Barren River District Health Department  |
| <b>Website:</b>                 | <a href="https://www.barrenriverhealth.org/contact-us">https://www.barrenriverhealth.org/contact-us</a>  |
| <b>Agency Address:</b>          | 1109 State Street, Bowling Green, KY 42102   |
| <b>Agency Phone Number:</b>     | (270) 781-8039   |
| <b>Agency Email:</b>            | N/A (portal used)  |
| <b>Date of Contact:</b>         | January 2023   |
| <b>Method of Communication:</b> | email  |
| <b>Communication Summary:</b>   | A message was submitted to the Barren River District Health Department. No general email was available. No response has been received to date. |



#### 4.1.6 BARREN COUNTY EMERGENCY MANAGEMENT

|                                 |   |
|---------------------------------|---|
| <b>Name of Agency:</b>          | Emergency Management Agency   |
| <b>Website:</b>                 | N/A   |
| <b>Agency Address:</b>          | 117 North Public Square, Suite 3A Glassgow, KY 42141  |
| <b>Agency Phone Number:</b>     | (270) 651-4910  |
| <b>Agency Email</b>             | N/A   |
| <b>Date of Contact:</b>         | January 25, 2023  |
| <b>Method of Communication:</b> | Call  |
| <b>Communication Summary:</b>   | A message was left with the Emergency Management Agency regarding records for chemical or petroleum spills in the area. However, no response has been received to date. |

#### 4.1.7 EMERGENCY RESPONSE

|                                 |  |
|---------------------------------|--|
| <b>Name of Agency:</b>          | Rocky Hill Volunteer Fire Department, Smiths Grove Fire Department 3 Forks, South Barren Fire Department.  |
| <b>Website:</b>                 | N/A  |
| <b>Agency Address:</b>          | 1780 Rocky Hill Road   |
| <b>Agency Phone Number:</b>     | Rocky Hill Fire Department (270) 749-5000, Smiths Grove Fire Department (270) 563-2901, South Barren Fire Department (270)678-3050   |
| <b>Agency Email</b>             | N/A  |
| <b>Date of Contact:</b>         | January 25, 2023   |
| <b>Method of Communication:</b> | Phone Call   |
| <b>Communication Summary:</b>   | Stantec contacted the Rocky Hill Volunteer Fire Department, the Smiths Grover Fire Department 3 Forks Station, and the South Barren Fire Department in an effort to determine any chemical or petroleum spills and clean ups in the Project Area. However, no one could be reached at any of the departments and there was no option to leave a message. |

#### 4.1.8 OIL AND GAS TRANSMISSION

|                                 |   |
|---------------------------------|---|
| <b>Name of Agency:</b>          | US Department of Transportation's National Pipeline Mapping System  |
| <b>Website:</b>                 | <a href="https://pvnpm.phmsa.dot.gov/PublicViewer/">https://pvnpm.phmsa.dot.gov/PublicViewer/</a>                                       |
| <b>Date of Contact:</b>         | January 2023  |
| <b>Method of Communication:</b> | Online  |
| <b>Communication Summary:</b>   | According to the online Geographic Information System viewer, the closest pipeline to the Project Area is approximately 1.5 miles away. |





#### 4.1.9 OIL AND GAS EXPLORATION

|                                 |  |
|---------------------------------|--|
| <b>Name of Agency:</b>          | Kentucky Geological Survey – Kentucky Oil and Gas Well Location Shapefile  |
| <b>Website:</b>                 | <a href="https://www.uky.edu/kgs/kogwlls/">Kentucky Oil and Gas Well Location Shapefile (uky.edu)</a>  |
| <b>Date of Contact:</b>         | January 2023   |
| <b>Method of Communication:</b> | Online   |
| <b>Communication Summary:</b>   | According to the online Kentucky Geological Survey Kentucky Oil and Gas Well Location Shapefile, 22 oil and gas wells are located within the Project Area. |

#### 4.1.10 UTILITIES

Public utilities, such as electricity, natural gas, and public water, are for properties in the general Project Area. According to the ERIS physical settings report (Appendix F), several water wells have been identified in the general Project Area (ERIS 2022b).

| Utility                            | Provider     |
|------------------------------------|--------------|
| <b>Electrical Utility Company:</b> | Warren RECC  |
| <b>Water Utilities:</b>            | Warren Water |
| <b>Sewer Utility:</b>              | Warren Water |
| <b>Natural Gas Utility:</b>        | ATMOS Energy |

#### 4.1.11 OTHER LOCAL ENVIRONMENTAL RECORDS SOURCES

No additional local environmental records sources were reviewed for this Phase I ESA.

### 4.2 Physical Setting Sources

#### 4.2.1 TOPOGRAPHY

The US Geological Survey 7.5-minute topographic series maps for Glasgow North, KY; Glasgow South, KY; Horse Cave, KY; Lucas, KY; Mammoth Cave, KY; Meador, KY; Park City, KY; and Rhoda, KY were reviewed for this Phase I ESA. The contour lines on the topographic maps show that the Project Area generally has relatively flat topography with gently rolling hills and ranges from approximately 650 feet above mean sea level to 750 feet above mean sea level.

#### 4.2.2 GEOLOGY/SOILS

The underlying bedrock of the Project Area includes the Mississippian shale and limestone. The majority of the soils in the Project area are silty loams. The soils can generally be described as well drained to permeable soils. In total, 34 different soil map units are located within the Project Area (US Department of Agriculture, Natural Resources Conservation Service 2022).



### 4.2.3 HYDROLOGY

According to topographic map interpretation, the groundwater in the vicinity of the Project Area appears to flow toward the west and follows the flow of Gardner and Little Sinking Creeks. During the site reconnaissance, ponds and wetlands were observed throughout the Project Area. Groundwater in the area is available with springs and residential groundwater wells present within and around the Project Area. Only one well included depth, which was 48 feet.

### 4.2.4 OTHER PHYSICAL SETTING SOURCES

#### 4.2.4.1 Flood Plain Map

Stantec performed a review of the Flood Insurance Rate Maps (FIRMs), published by the Federal Emergency Management Agency (FEMA). According to FEMA's FIRM numbers 21003C0075C, 21009C0255C, 21009C0150C, 21009C0135C, 21061C0275B, 21227C0240E, and 21227C0250E, approximately 81.4 acres of the Project is located within the 100-year floodplain (Zone A), mainly along Gardner and Little Sinking Creeks. FEMA FIRMs are provided in Appendix F Physical Setting Report.

#### 4.2.4.2 Wetlands Map

A formal determination is provided under a separate cover.

## 4.3 Historical Records Sources

Table 4-2 summarizes the findings of the research presented in the following subsections pertaining to historical property and surrounding area uses.

**Table 4-3 Historical Use Information**

| Period / Date | Source             | Description / Use  |
|---------------|--------------------|--|
| 1922 to 2019  | Topographic maps   | Land is in agricultural use with undeveloped sections.   |
| 1954 to 2020  | Aerial photographs | Minor tree clearing and development however, the area has remained relatively rural and agricultural use since 1954. |

Potential environmental concerns were not identified in association with the current or former use of the Project Area. The Houston Cemetery is noted as occurring on the southwest portion of the Project Area.

### 4.3.1 AERIAL PHOTOGRAPHS

Stantec reviewed aerial photographs of the Project Area and the surrounding areas, dating from 1954 to 2020. The aerial photographs were obtained from ERIS on December 20, 2022 (ERIS 2022c). Stantec staff did not identify any potential environmental concerns associated with the current or former use of the Project Area during the review of these photographs. No significant land development or changes were noted on the aerial photographs from 1954 to 2020, except for minor additional development within residential areas. Copies of the aerial photographs obtained for this report are included in Appendix G.



#### **4.3.2 HISTORICAL US GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLES**

Stantec staff also reviewed historical topographic maps of the Project Area, dating from 1922 to 2019. These maps were obtained from ERIS on December 12, 2022 (ERIS 2022d). Stantec did not identify any potential environmental concerns associated with the current or former use of the Project Area during the review of these topographic maps. Copies of these topographic maps are included in Appendix H of this report.

#### **4.3.3 FIRE INSURANCE MAPS**

Fire insurance maps were requested; however, no information was available for the site or adjacent properties. A statement from ERIS regarding the lack of data available data is provided in Appendix I (ERIS 2022e)

#### **4.3.4 PROPERTY TAX FILES**

Property owner information was obtained and provided by Geenex Solar. Additional historical ownership information was not available.

#### **4.3.5 RECORDED LAND TITLE RECORDS AND ACTIVITY AND USE LIMITATIONS**

The acquisition of recorded land title records was not required by the scope of work for this Phase I ESA.

#### **4.3.6 CITY DIRECTORIES**

Because of the rural nature and size of the Project Area, city directories were not reviewed for this Phase I ESA.

#### **4.3.7 PRIOR REPORTS**

No prior reports were reviewed for this Phase I ESA.

#### **4.3.8 OTHER HISTORICAL SOURCES**

No other historical sources were reviewed for this Phase I ESA.



## 5 Site Reconnaissance

The unaccompanied site reconnaissance was conducted by Jonathan Hess, Kelsey Cleve, Carinne Johnston, and Corbin Hoffmann of Stantec on December 5 through 8, 2022. This visit was focused on the accessible areas of the Project Area and noted only exterior features of buildings and facilities.

The Project Area is rural and contained equipment and facilities associated with agriculture. Stantec staff observed 39 areas containing debris (Photos 4, 6, 9, 21, 26, 28, 29, 52, 53, 55, 61, 63, 69, 73, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 107, 108); 33 structures including residences, barns, silos, and garages (Photos 2, 8, 10, 11, 12, 13, 14, 18, 22, 24, 30, 32, 34, 38, 39, 44, 45, 46, 50, 51, 57, 58, 64, 66, 68, 73, 74, 75, 90, 92, 93, 105, 109); and 15 instances of farm equipment (Photos 1, 11, 12, 16, 28, 31, 33, 40, 41, 42, 43, 44, 45, 46, and 54). Stantec staff also observed 15 transformers (Photos 3, 15, 19, 23, 27, 48, 56, 67, 71, 74, 76, 91, 104, 106, and 109); 4 electrical boxes (Photos 17 and 20, 72, 104); 2 wells (Photo 50 and 89), 1 graveyard (Photo 7); and 10 ASTs/containers (Photos 5, 25, 35, 36, 37, 45, 49, 59, 65, 106), all of which appeared to be in good condition. None of the observations met REC criteria, and no additional investigation is recommended. Photographs and a map of photo locations are provided in Appendix B of this report.

### 5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of the Project Area and improvements, adjoining sites as viewed from the Project Area, and the surrounding area based on visual observations made during the trip to and from the Project Area. At the time of the inspection of the Project Area, the weather conditions were cloudy and approximately 40 degrees Fahrenheit.

### 5.2 Hazardous Substance Use, Storage, and Disposal

Multiple ASTs containing unknown substances were observed at various locations within the Project Area (see Section 5.3 for details).

### 5.3 Aboveground and Underground Hazardous Substance or Petroleum Product Storage Tanks

Stantec Staff observed 10 ASTs within the Project Area. No odor or stressed vegetation was observed at any of the ASTs documented during the site assessment. Documentation of the ASTs is provided in Appendix B.

### 5.4 Polychlorinated Biphenyls

Older transformers and other electrical equipment could contain polychlorinated biphenyls (PCBs) at a level that subjects them to regulation by the US Environmental Protection Agency (USEPA). PCBs in electrical equipment are controlled by USEPA regulations 40 CFR, Part 761. Under the regulations, electrical equipment can be classified into three categories: (1) *Non-PCB* – less than 50 parts per million (ppm) of PCBs, (2) *PCB-Contaminated* – 50 to 500 ppm, and (3) *PCB-Containing* – greater than 500



ppm. The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

The onsite reconnaissance addressed outdoor transformers that may contain PCBs. In total, 15 transformers and 4 electrical boxes/meter were observed throughout the Project Area. Stantec staff also observed 7 other instances of potential PCB-containing electrical and hydraulic equipment, such as farm and heavy equipment, that could potentially contain PCBs. See Photos 3, 15, 19, 23, 27, 48, 56, 17, and 20, 67, 71, 72, 74, 76, 91, 104, 106, 109 in Appendix B.

## 5.5 Unidentified Substance Containers

As discussed in Section 5.3, Stantec staff observed 10 ASTs or containers within the Project Area. No odor or stressed vegetation was observed at any of the ASTs or containers documented during the site assessment. The ASTs or containers either appeared to be empty or the fill level could not be determined. No stressed vegetation was observed in proximity to the barrels. See Photos 5, 25, 35, 36, 37, 45, 49, 59, 65, and 106 in Appendix B.

## 5.6 De Minimis and Other Chemical Observations

Stantec staff observed evidence of *de minimis* debris and other chemical products associated with agricultural operations within the Project Area and on adjoining properties. Stantec also identified eight areas with debris, including tires, garbage, collapsed structures, and other debris. See Photos 4, 6, 9, 21, 26, 28, 29, 52, 53, 55, 61, 63, 69, 73, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 107, 108 in Appendix B.

## 5.7 Structures

Stantec observed 33 structures within the Project Area including residences, barns, sheds, garages, and silos. Many residences and agricultural-related structures were in use at the time of the onsite investigation of the site. See Photos 2, 8, 10, 11, 12, 13, 14, 18, 22, 24, 30, 32, 34, 38, 39, 44, 45, 46, 50, 51, 57, 58, 64, 66, 68, 73, 74, 75, 90, 92, 93, 105, 109 in Appendix B. Stantec observed 8 collapsed structures some of which are also included in the *de minimis* discussion in Section 5.6 above due to surrounding debris and within the structures count if not completely collapsed. See Photos 26, 28, 61, 68, 86, 87, 93, and 101 in Appendix B.

## 5.8 Wastewater

Stantec staff did not observe any wastewater systems within the Project Area.

## 5.9 Sumps

Stantec staff did not observe any evidence of sumps or oil/water separators within the Project Area.



## **5.10 Septic Systems**

Stantec staff did not observe any signs of relic septic tanks; however, residences and businesses within the Project Area are assumed to be on septic systems.

## **5.11 Stormwater Management System**

Stantec staff identified one broken culvert and one exposed pvc pipe (Photo: 62 and 70 respectively) assumed to be associated with a stormwater management system in addition to the the ditches, swales, and streams that convey stormwater from the agricultural fields.

## **5.12 Wells**

Stantec observed 2 groundwater well within the Project Area (Photos: 50 and 89). According to the ERIS physical settings report (Appendix F), 1 water well is located within the Project Area. In addition, 22 oil and gas wells are located within the Project Area, of which 6 are listed as plugged as reported by the Kentucky Geological Survey (University of Kentucky 2023). The remaining 18 wells are listed as plugged date null and are assumed to be active. Appendix J provides the locations of oil and gas wells within the Project Area. Well locations are also provided in the ERIS physical settings report (Appendix F).



## 6 Interviews

Stantec contacted the Barren River Health District Health Department via email and the Barren County Emergency Management Department via phone call. No response had been received from either agency at the time this report was prepared. Stantec also attempted to contact local fire departments including the Rocky Hill, Smiths Grove, and South Barren stations to locate any records of environmental complaints and petroleum or chemical spills within or near the Project Area. Stantec was unable to contact these stations, and no answering machine was available to leave a message.



## 7 Other Environmental Conditions

### 7.1 Asbestos-containing Material

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties, such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration's regulation 29 CFR 1926.1101 requires that certain construction materials are presumed to contain asbestos. All thermal system insulation, surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are *presumed* to be ACM.

Because of the agricultural use of the Project Area, ACM was not considered within the scope of this Phase I ESA.

### 7.2 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. USEPA has prepared a map to assist national, state, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, as detailed in Table 7-1.

**Table 7-1 USEPA Radon Zones**

| <b>Zones</b> | <b>Average Predicted Radon Levels</b> | <b>Potential</b> |
|--------------|---------------------------------------|------------------|
| Zone 1       | Exceed 4.0 pCi/L                      | Highest          |
| Zone 2       | Between 2.0 and 4.0 pCi/L             | Moderate         |
| Zone 3       | Less than 2.0 pCi/L                   | Low              |

Note: pCi/L – picocuries per liter

It is important to note that USEPA has found homes with elevated levels of radon in all three zones and that USEPA recommends site-specific testing to determine radon levels at a specific location; however, the map provides a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this Phase I ESA. Review of the USEPA map of Radon Zones places the Project Area in Zone 1 in Barren County and Zone 2 in Edmonson County. Based upon the radon zone classification, radon can present a significant environmental concern.

### 7.3 Lead in Drinking Water

According to the Bowling Green Muni Utilities (2021) drinking water report, none of the results for lead in drinking water exceeds the maximum contaminant level limit.





## 7.4 Lead-based Paint

Lead is a highly toxic metal that affects virtually every system of the body. Lead-based paint (LBP) is defined as any paint, varnish, stain, or other applied coating that has 1 milligram per square centimeter (mg/cm<sup>2</sup>, or 5,000 microgram per gram [ $\mu$ g/g] or 0.5 percent by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as *Title X*, to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered to be a hazard, although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the US Department of Housing and Urban Development and the USEPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Because of the agricultural use of the Project Area, LBP was not considered within the scope of this Phase I ESA.

## 7.5 Mold Screening

Molds are microscopic organisms found virtually everywhere—indoors and outdoors. Mold grows and multiplies under the right conditions, needing only sufficient moisture (e.g., in the form of very high humidity, condensation, or water from a leaking pipe) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding) (ASTM 2006).

No obvious indications of water damage or mold growth were observed during Stantec's visual assessment.

## 7.6 Vapor Encroachment

Stantec did not conduct a limited screening for potential vapor encroachment conditions (VECs) that may affect the Project Area. A VEC screening would focus on the current and historical usage of the Project Area and instead used the regulatory database report provided by ERIS to evaluate the potential for chemicals of concern, including petroleum hydrocarbons. If the client should choose to further evaluate the potential VECs, Stantec can provide those services accordingly.



## 8 References

ASTM (ASTM International). 2006. *Standard Guide for Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process*, ASTM Designation E 2418-06 March 2006.

ASTM. 2016. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E 2247-16. December 2016.

BGMU (Bowling Green Muni Utilities). 2021. 2021 Water Quality Report. Available at: [www.bgmui.com/wp-content/uploads/2021/03/CCR-2021.pdf](http://www.bgmui.com/wp-content/uploads/2021/03/CCR-2021.pdf). Accessed January 2022.

ERIS (Environmental Risk Information Services). 2022a. *Database Report*, Order Number 22121200544, dated December 13, 2022

ERIS. 2022b. *Physical Setting Report*, Order Number 22121200544, dated December 13, 2022.

ERIS. 2022c. *Historical Aerials*, Order Number 22121200544, dated December 13, 2022.

ERIS. 2022d. *Topographic Maps*, Order Number 22121200544, dated December 13, 2022.

ERIS. 2022e. *Fire Insurance Maps*, Order Number 22121200544, dated December 13, 2022.

University of Kentucky. 2023. Kentucky Geological Survey. Kentucky Oil and Gas Well Location Shapefile. Available at: <https://www.uky.edu/KGS/emsweb/data/kyogshape.html>. Accessed January 2022.

US Department of Agriculture, Natural Resource Conservation Service. 2022. Web Soil Survey. Available at: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed October 2022.

USEPA (United States Environmental Protection Agency). 2022. Clean Ups in My Community. Available at: <https://www.epa.gov/cleanups/cleanups-my-community#map>. Accessed January 2022.


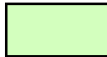


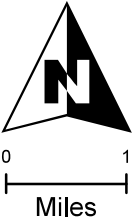
# **Appendix A**

## **Site Vicinity Map**





-  Project Boundary
-  National park or forest



Critical Impact Analysis  
Wood Duck Solar  
Barren County, Kentucky

Project Area Overview

|                     |                           |                      |
|---------------------|---------------------------|----------------------|
| Date:<br>April 2022 | Project No:<br>E321201503 | Appendix<br><b>A</b> |
|---------------------|---------------------------|----------------------|

# **Appendix B**

## **Project Area Photographs**





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
1

**Date:**  
11/15/22

**Coordinates:**  
37.02761, -86.07436

**Photo Direction:**  
east

**Description:**  
Farm equipment within barn.

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
2

**Date:**  
11/15/22

**Coordinates:**  
37.02761, -86.07436

**Photo Direction:**  
West

**Description:**  
Barn in use.


**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
3

**Date:**  
11/15/22

**Coordinates:**  
37.02761, -86.07436

**Photo Direction:**  
South

**Description:**  
Transformer – appears in good condition.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
4

**Date:**  
11/16/22

**Coordinates:**  
37.02848, -86.05216

**Photo Direction:**  
northeast

**Description:**  
Debris pile.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
5

**Date:**  
11/16/22

**Coordinates:**  
37.02847, -86.05217

**Photo Direction:**  
west

**Description:**  
Spray container within debris pile.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
6

**Date:**  
11/16/22

**Coordinates:**  
37.02846, -86.05219

**Photo Direction:**  
southwest

**Description:**  
Metal sheeting and debris.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
7

**Date:**  
11/16/22

**Coordinates:**  
37.03515, -86.04276

**Photo Direction:**  
south

**Description:**  
Graveyard near  
dilapidated barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
8

**Date:**  
11/16/22

**Coordinates:**  
37.03515, -86.04276

**Photo Direction:**  
east

**Description:**  
Shed near dilapidated  
barn.







**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
9

**Date:**  
11/16/22

**Coordinates:**  
37.03515, -86.04276

**Photo Direction:**  
northeast

**Description:**  
Abandoned fridge near dilapidated barn.



**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
10

**Date:**  
11/16/22

**Coordinates:**  
37.03515, -86.04276

**Photo Direction:**  
Northeast

**Description:**  
Dilapidated barn.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
11

**Date:**  
11/16/22

**Coordinates:**  
37.039757, -86.059427

**Photo Direction:**  
northwest

**Description:**  
Barn with farm equipment and parts.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
12

**Date:**  
11/16/22

**Coordinates:**  
37.039757, 86.059427

**Photo Direction:**  
West

**Description:**  
Barn with farm equipment and parts.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
13

**Date:**  
11/16/22

**Coordinates:**  
37.039435, -86.05962

**Photo Direction:**  
east

**Description:**  
Silos.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
14

**Date:**  
11/16/22


**Coordinates:**  
37.039435, -86.05962


**Photo Direction:**  
northwest

**Description:**  
Silos and electrical  
junction box.





|   |              |  |  |                                 |
|---|--------------|--|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                    |              | <b>County/State:</b><br>Barren County, Kentucky                                    |  | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>15  | <b>Date:</b> |  |  |                                 |
| <b>Coordinates:</b><br>37.03936, -86.059595                         |              |  |  |                                 |
| <b>Photo Direction:</b><br>east                                     |              |  |  |                                 |
| <b>Description:</b><br>Transformer appears to be in good condition. |              |  |  |                                 |

|  |                          |  |  |                                 |
|--|--------------------------|--|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                      |  | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>16                           | <b>Date:</b><br>11/16/22 |  |  |                                 |
| <b>Coordinates:</b><br>37.039285, -86.059458     |                          |  |  |                                 |
| <b>Photo Direction:</b><br>north                 |                          |  |  |                                 |
| <b>Description:</b><br>Farm equipment.           |                          |  |  |                                 |

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
17

**Date:**  
11/16/22

**Coordinates:**  
37.039585, -86.059566

**Photo Direction:**  
northeast

**Description:**  
Electrical junction box  
near silos.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
18

**Date:**  
11/16/22

**Coordinates:**  
37.041089, -86.060113

**Photo Direction:**  
southeast

**Description:**  
Residence and parking  
area across street.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
19

**Date:**  
11/16/22

**Coordinates:**  
37.041089, -86.060113

**Photo Direction:**  
northeast

**Description:**  
Transformer across street  
appears to be in good  
condition.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
20

**Date:**  
11/16/22

**Coordinates:**  
37.04121, -86.05983

**Photo Direction:**  
north

**Description:**  
Electrical junction box





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
21

**Date:**  
11/16/22

**Coordinates:**  
37.041424, -86.059706

**Photo Direction:**  
south

**Description:**  
Electric fence and debris.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
22

**Date:**  
11/26/22

**Coordinates:**  
37.041502, -86.059217

**Photo Direction:**  
northwest

**Description:**  
Active barn with pigs.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
23

**Date:**  
11/16/22

**Coordinates:**  
37.041642, -86.059068

**Photo Direction:**  
west

**Description:**  
Transformer appears in  
good condition.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
24

**Date:**  
11/16/22

**Coordinates:**  
37.042952, -86.060046

**Photo Direction:**  
northwest

**Description:**  
Greenhouse.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
25

**Date:**  
11/16/22

**Coordinates:**  
37.04286, -86.05982

**Photo Direction:**  
northeast

**Description:**  
Propane tank.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
26

**Date:**  
11/16/22


**Coordinates:**  
37.043898, -86.060138


**Photo Direction:**  
northeast

**Description:**  
Collapsed greenhouse and debris.





|   |                          |  |                                 |
|---|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                                |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>27  | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.043899, -86.060257                                    |                          |  |                                 |
| <b>Photo Direction:</b><br>west   |                          |  |                                 |
| <b>Description:</b><br>Transformer across street and appears in good condition. |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                   |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>28   | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.043711, -86.060142                       |                          |  |                                 |
| <b>Photo Direction:</b><br>northwest                               |                          |  |                                 |
| <b>Description:</b><br>Electrical junction box and farm equipment. |                          |  |                                 |

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
29

**Date:**  
11/16/22

**Coordinates:**  
37.043553, -86.060213

**Photo Direction:**  
north

**Description:**  
Debris and collapsed  
greenhouse structure.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
30

**Date:**  
11/16/22

**Coordinates:**  
37.043392, -86.060235

**Photo Direction:**  
north

**Description:**  
Old barn.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
31

**Date:**  
11/16/22

**Coordinates:**  
37.043392, -86.060235

**Photo Direction:**  
south

**Description:**  
Inside of old barn with  
farm equipment.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
32


**Date:**  
11/16/22


**Coordinates:**  
37.043233, -86.060068

**Photo Direction:**  
west

**Description:**  
Trailer near old barn.



|   |                          |  |                                 |
|---|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                            |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>33  | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.043233, -86.060068                                |                          |  |                                 |
| <b>Photo Direction:</b><br>west   |                          |  |                                 |
| <b>Description:</b><br>Inside trailer next to old barn with farm equipment. |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                       |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>34   | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.04339, -86.059904                            |                          |  |                                 |
| <b>Photo Direction:</b><br>southeast                                   |                          |  |                                 |
| <b>Description:</b><br>Collapsed shed outside of old barn with debris. |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
35

**Date:**  
11/16/22

**Coordinates:**  
37.043442, -86.060239

**Photo Direction:**  
south

**Description:**  
Residence with above  
ground propane tank.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
36


**Date:**  
11/16/22


**Coordinates:**  
37.042154, -86.060232

**Photo Direction:**  
south

**Description:**  
Two aboveground storage  
tanks with unknown  
substance and  
barn/garage.



|   |                          |  |                                 |
|---|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                            |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>37  | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.042314, -86.060245                                |                          |  |                                 |
| <b>Photo Direction:</b><br>southeast  |                          |  |                                 |
| <b>Description:</b><br>Aboveground propane tank at residence across street. |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>38                           | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.042767, -86.060258     |                          |  |                                 |
| <b>Photo Direction:</b><br>southwest             |                          |  |                                 |
| <b>Description:</b><br>Dilapidated barn.         |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
39

**Date:**  
11/16/22

**Coordinates:**  
37.047919, -86.061978

**Photo Direction:**  
northeast

**Description:**  
Tobacco barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
40

**Date:**  
11/16/22


**Coordinates:**  
37.047919, -86.061978


**Photo Direction:**  
east

**Description:**  
Farm equipment in barn.





|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>41                           | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.047919, -86.061978     |                          |  |                                 |
| <b>Photo Direction:</b><br>east                  |                          |  |                                 |
| <b>Description:</b><br>Farm equipment in barn.   |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>42                           | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.047919, -86.061978     |                          |  |                                 |
| <b>Photo Direction:</b><br>east                  |                          |  |                                 |
| <b>Description:</b><br>Farm equipment in barn.   |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
43

**Date:**  
11/16/22

**Coordinates:**  
37.047919, -86.061978

**Photo Direction:**  
southeast

**Description:**  
Farm equipment in barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
44

**Date:**  
11/16/22

**Coordinates:**  
37.047385, -86.061467

**Photo Direction:**  
east

**Description:**  
Barn with boat and farm equipment.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
45

**Date:**  
11/16/22

**Coordinates:**  
37.047385, -86.061467

**Photo Direction:**  
southeast

**Description:**  
Containers with unknown substances and farm equipment.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
46


**Date:**  
11/16/22


**Coordinates:**  
37.047333, -86.061402

**Photo Direction:**  
northeast

**Description:**  
Old barn.



|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I       |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>47                                 | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.047333, -86.061402           |                          |  |                                 |
| <b>Photo Direction:</b><br>southwest                   |                          |  |                                 |
| <b>Description:</b><br>Farm equipment within old barn. |                          |  |                                 |

|   |                          |  |                                 |
|---|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I              |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>48  | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.047159, -86.060904                  |                          |  |                                 |
| <b>Photo Direction:</b><br>south                              |                          |  |                                 |
| <b>Description:</b><br>Transformer appears in good condition. |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
49

**Date:**  
11/16/22

**Coordinates:**  
37.046776, -86.060173

**Photo Direction:**  
west

**Description:**  
Residence with AST and transformer.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
50

**Date:**  
11/16/22

**Coordinates:**  
37.035686, -86.049523

**Photo Direction:**  
northeast

**Description:**  
Dilapidated barn.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
51

**Date:**  
11/16/22

**Coordinates:**  
37.038434, -86.059005

**Photo Direction:**  
southwest

**Description:**  
Barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
52

**Date:**  
11/16/22

**Coordinates:**  
37.047673, -86.063388


**Photo Direction:**  
southwest

**Description:**  
Tire pile.





|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>53                           | <b>Date:</b><br>11/16/22 |  |                                 |
| <b>Coordinates:</b><br>37.047673, -86.063388     |                          |  |                                 |
| <b>Photo Direction:</b><br>north                 |                          |  |                                 |
| <b>Description:</b><br>Tire pile.                |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>54                           | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.050872, -86.075525     |                          |  |                                 |
| <b>Photo Direction:</b><br>west                  |                          |  |                                 |
| <b>Description:</b><br>Farm equipment.           |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
55

**Date:**  
11/17/22

**Coordinates:**  
37.050872, -86.075525

**Photo Direction:**  
west

**Description:**  
Culvert pipe.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
56

**Date:**  
11/17/22

**Coordinates:**  
37.053717, -86.068446

**Photo Direction:**  
northeast

**Description:**  
Transformer appears in good condition.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
57

**Date:**  
11/17/22

**Coordinates:**  
37.053729, -86.068492

**Photo Direction:**  
west

**Description:**  
Old Barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
58

**Date:**  
11/17/22

**Coordinates:**  
37.053729, -86.068492

**Photo Direction:**  
northwest

**Description:**  
Inside of old barn.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
59

**Date:**  
11/17/22

**Coordinates:**  
37.053735, -86.068408

**Photo Direction:**  
northeast

**Description:**  
Residence with propane tank.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
60

**Date:**  
11/17/22

**Coordinates:**  
37.053712, -86.06834

**Photo Direction:**  
southeast

**Description:**  
Water well structure.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
61

**Date:**  
11/17/22

**Coordinates:**  
37.054639, -86.068478

**Photo Direction:**  
northwest

**Description:**  
Collapsed structure and debris.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
62

**Date:**  
11/17/22

**Coordinates:**  
37.022515, -86.084341

**Photo Direction:**  
Northwest

**Description:**  
Broken culvert in start of stream/end of swale.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
63

**Date:**  
11/17/22

**Coordinates:**  
37.022515, -86.084341

**Photo Direction:**  
Northwest

**Description:**  
Miscellaneous concrete, debris in stream.

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
64

**Date:**  
11/17/22

**Coordinates:**  
37.024925, -86.083282

**Photo Direction:**  
North

**Description:**  
Barn and silo.




**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
65

**Date:**  
11/17/22

**Coordinates:**  
37.024925, -86.083282

**Photo Direction:**  
North

**Description:**  
Large propane tank  
behind house.



**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
66

**Date:**  
11/17/22

**Coordinates:**  
37.024925, -86.083282

**Photo Direction:**  
North

**Description:**  
Silo





**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
67

**Date:**  
11/17/22

**Coordinates:**  
37.024925, -86.083282

**Photo Direction:**  
South

**Description:**  
Transformer at barn/home site.



**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
68

**Date:**  
11/17/22

**Coordinates:**  
37.038860, -86.083365

**Photo Direction:**  
northwest

**Description:**  
Collapsed structure and debris, potential old homesite.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
69

**Date:**  
11/17/22

**Coordinates:**  
37.040441, -86.079597

**Photo Direction:**  
East

**Description:**  
Miscellaneous empty oil, fluid containers, various equipment (near where tractor is routinely stored).



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
70

**Date:**  
11/17/22

**Coordinates:**  
37.041328, -86.083065

**Photo Direction:**  
Southwest

**Description:**  
Exposed pipe.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
71

**Date:**  
11/17/22

**Coordinates:**  
37.043866, -86.081259

**Photo Direction:**  
North

**Description:**  
Active transformer next to barn.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
72


**Date:**  
11/17/22

**Coordinates:**  
37.043866, -86.081259

**Photo Direction:**  
East

**Description:**  
Electrical meter on barn.



|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>73                           | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.043866, -86.081259     |                          |  |                                 |
| <b>Photo Direction:</b><br>West                  |                          |  |                                 |
| <b>Description:</b><br>Actively utilized barn.   |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I           |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>74                                     | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.045076, -86.082673               |                          |  |                                 |
| <b>Photo Direction:</b><br>North.                          |                          |  |                                 |
| <b>Description:</b><br>Active mobile home and transformer. |                          |  |                                 |



**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
75

**Date:**  
11/17/22

**Coordinates:**  
37.043518, -86.085009

**Photo Direction:**  
West

**Description:**  
Active tobacco barn.



**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
76

**Date:**  
11/17/22

**Coordinates:**  
37.043518, -86.085009

**Photo Direction:**  
Southwest

**Description:**  
Transformer by tobacco barn.







**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
77

**Date:**  
11/17/22

**Coordinates:**  
37.042860, -86.087828

**Photo Direction:**  
northwest

**Description:**  
Collapsed structure and debris.



**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
78

**Date:**  
11/17/22


**Coordinates:**  
37.046883, -86.087102

**Photo Direction:**  
South

**Description:**  
Car parts, concrete, metals in ditch/drainage.



|  |                          |   |                                 |
|--|--------------------------|---|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                     | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>79                           | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.046883, -86.087102     |                          |   |                                 |
| <b>Photo Direction:</b><br>South                 |                          |   |                                 |
| <b>Description:</b><br>Exposed old metal piping. |                          |   |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I             |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>80                                       | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.047561, -86.085898                 |                          |  |                                 |
| <b>Photo Direction:</b><br>North                             |                          |  |                                 |
| <b>Description:</b><br>Concrete debris in ditch to cow pond. |                          |  |                                 |



|   |                          |  |                                 |
|---|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                |                          | <b>County/State:</b><br>Barren County, Kentucky                                    | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>81  | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.047186, -86.084617                    |                          |  |                                 |
| <b>Photo Direction:</b><br>East                                 |                          |  |                                 |
| <b>Description:</b><br>Couches and other debris along hillside. |                          |  |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I     |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>82                               | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.047186, -86.084617         |                          |  |                                 |
| <b>Photo Direction:</b><br>East                      |                          |  |                                 |
| <b>Description:</b><br>Discarded TVs along hillside. |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
83

**Date:**  
11/17/22

**Coordinates:**  
37.047186, -86.084617

**Photo Direction:**  
Northeast

**Description:**  
Hillside full of various debris: tires, old empty barrels, metals, woods, furniture, appliances.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
84

**Date:**  
11/17/22

**Coordinates:**  
37.045915, -86.084391

**Photo Direction:**  
West

**Description:**  
Old, discarded furniture along hillside.





**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
85

**Date:**  
11/17/22

**Coordinates:**  
37.045915, -86.084391

**Photo Direction:**  
Northwest

**Description:**  
Discarded concretes,  
plastics, old barrels,  
metals.



**Stantec**

**PHOTOGRAPHIC LOG**

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
86

**Date:**  
11/17/22

**Coordinates:**  
37.044168, -86.076418

**Photo Direction:**  
Northeast

**Description:**  
Collapsed structure and  
debris.





**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
87

**Date:**  
11/17/22

**Coordinates:**  
37.044168, -86.076418

**Photo Direction:**  
North

**Description:**  
Collapsed structure and debris; handheld 5 gallon or less propane tank.



**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
88

**Date:**  
11/17/22

**Coordinates:**  
37.044668, -86.074403

**Photo Direction:**  
West

**Description:**  
Misc debris in stream from pond.







## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
89

**Date:**  
11/17/22

**Coordinates:**  
37.044108, -86.074700

**Photo Direction:**  
South

**Description:**  
Exposed pipe/pump in field.



## PHOTOGRAPHIC LOG

**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
90

**Date:**  
11/17/22

**Coordinates:**  
37.043140, -86.072976

**Photo Direction:**  
Northeast

**Description:**  
Adjacent Woodland Church.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
91

**Date:**  
11/17/22

**Coordinates:**  
37.043140, -86.072976

**Photo Direction:**  
Northwest

**Description:**  
Active transformer at church.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
92

**Date:**  
11/17/22

**Coordinates:**  
37.039847, -86.065045

**Photo Direction:**  
Northeast

**Description:**  
Adjacent occupied home and transformer/electrical.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
93

**Date:**  
11/17/22

**Coordinates:**  
37.048334, -86.081651

**Photo Direction:**  
West

**Description:**  
Collapsed structure and debris.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
94

**Date:**  
11/17/22

**Coordinates:**  
37.048334, -86.081651

**Photo Direction:**  
northwest

**Description:**  
Collapsed structure and debris.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
95

**Date:**  
11/17/22

**Coordinates:**  
37.051264, -86.077389

**Photo Direction:**  
South.

**Description:**  
Miscellaneous debris in  
ditch/stream.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
96

**Date:**  
11/17/22

**Coordinates:**  
37.055180, -86.083391

**Photo Direction:**  
northwest

**Description:**  
Miscellaneous debris in  
waterway and on bank.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
97

**Date:**  
11/17/22

**Coordinates:**  
37.055180, -86.083391

**Photo Direction:**  
South

**Description:**  
Concrete along bank.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
98

**Date:**  
11/17/22

**Coordinates:**  
37.055036, -86.083815

**Photo Direction:**  
South

**Description:**  
Miscellaneous debris in waterway.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
99

**Date:**  
11/17/22

**Coordinates:**  
37.054199, -86.090055

**Photo Direction:**  
northwest

**Description:**  
Burn pit full of wooden debris. Photo taken after dusk.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
100

**Date:**  
11/17/22

**Coordinates:**  
37.053749, -86.093215

**Photo Direction:**  
South

**Description:**  
Old vehicle.





**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
101

**Date:**  
11/17/22

**Coordinates:**  
37.053749, -86.093215

**Photo Direction:**  
South.

**Description:**  
Old structure and debris,  
significantly covered by  
invasive vegetation..



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
102

**Date:**  
11/17/22

**Coordinates:**  
37.053805, -86.094018

**Photo Direction:**  
Northwest

**Description:**  
Old structure.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
103

**Date:**  
11/17/22

**Coordinates:**  
37.053805, -86.094018

**Photo Direction:**  
North.

**Description:**  
Old foundation.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
104

**Date:**  
11/17/22

**Coordinates:**  
37.054639, -86.068478

**Photo Direction:**  
Southeast

**Description:**  
Various electrical boxes and equipment (adjacent to boundary and along roadway at the top of the hill).



|  |                          |   |                                 |
|--|--------------------------|---|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I |                          | <b>County/State:</b><br>Barren County, Kentucky                                     | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>105                          | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.061113, -86.066741     |                          |   |                                 |
| <b>Photo Direction:</b><br>West                  |                          |   |                                 |
| <b>Description:</b><br>Adjacent property.        |                          |   |                                 |

|  |                          |  |                                 |
|--|--------------------------|--|---------------------------------|
| <b>Property Name:</b><br>Wood Duck Solar Phase I                               |                          | <b>County/State:</b><br>Barren County, Kentucky                                      | <b>Project No.</b><br>237801898 |
| <b>Photo No.</b><br>106  | <b>Date:</b><br>11/17/22 |  |                                 |
| <b>Coordinates:</b><br>37.061113, -86.066741                                   |                          |  |                                 |
| <b>Photo Direction:</b><br>Northeast   |                          |  |                                 |
| <b>Description:</b><br>Adjacent homesite's large propane tank and transformer. |                          |  |                                 |



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
107

**Date:**  
11/17/22

**Coordinates:**  
37.060778, -86.067745

**Photo Direction:**  
northwest

**Description:**  
Miscellaneous debris in  
hillside and drainage.



**Property Name:**  
Wood Duck Solar Phase I

**County/State:**  
Barren County, Kentucky

**Project No.**  
237801898

**Photo No.**  
108

**Date:**  
11/17/22

**Coordinates:**  
37.058800, -86.068287

**Photo Direction:**  
South

**Description:**  
Entire car frame in  
waterway.





**Stantec**

## PHOTOGRAPHIC LOG

**Property Name:**

Wood Duck Solar Phase I

**County/State:**

Barren County, Kentucky

**Project No.**

237801898

**Photo No.**

109

**Date:**

11/17/22

**Coordinates:**

37.062849, -86.065455

**Photo Direction:**

East

**Description:**

Brand new homesite and transformer (not on aerial imagery).



# **Appendix C ERIS Database Report**







# DATABASE REPORT

|                          |  |
|--------------------------|--|
| <b>Project Property:</b> | <i>Wood Duck Phase I ESA<br/>N/A<br/>Smiths Grove KY</i> |
| <b>Project No:</b>       | <i>237801898</i>   |
| <b>Report Type:</b>      | <i>Database Report</i>                                   |
| <b>Order No:</b>         | <i>22121200544</i>                                       |
| <b>Requested by:</b>     | <i>Cardno Inc.</i>                                       |
| <b>Date Completed:</b>   | <i>December 14, 2022</i>                                 |

**Environmental Risk Information Services**

*A division of Glacier Media Inc.*

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# Executive Summary

## **Property Information:**

**Project Property:** *Wood Duck Phase I ESA  
N/A Smiths Grove KY*

**Project No:** *237801898*

### **Coordinates:**

**Latitude:** *37.03923949*  
**Longitude:** *-86.07417753*  
**UTM Northing:** *4,099,626.07*  
**UTM Easting:** *582,334.69*  
**UTM Zone:** *UTM Zone 16S*

**Elevation:** *684 FT*

## **Order Information:**

**Order No:** *22121200544*  
**Date Requested:** *December 12, 2022*  
**Requested by:** *Cardno Inc.*  
**Report Type:** *Database Report*

## **Historicals/Products:**

|                                      |   |
|--------------------------------------|---|
| <b>Aerial Photographs</b>            | <i>Historical Aerials (with Project Boundaries)</i> |
| <b>City Directory Search</b>         | <i>CD - 2 Street Search</i>                         |
| <b>ERIS Xplorer</b>                  | <a href="#"><i>ERIS Xplorer</i></a>                 |
| <b>Excel Add-On</b>                  | <i>Excel Add-On</i>                                 |
| <b>Fire Insurance Maps</b>           | <i>US Fire Insurance Maps</i>                       |
| <b>Physical Setting Report (PSR)</b> | <i>Physical Setting Report (PSR)</i>                |
| <b>Topographic Map</b>               | <i>Topographic Maps</i>                             |



## Executive Summary: Report Summary

| Database                                     | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|--|----------|---------------|------------------|---------------|-------------------|------------------|------------------|-------|
| <b><u>Standard Environmental Records</u></b> |          |               |                  |               |                   |                  |                  |       |
| <b>Federal</b>                               |          |               |                  |               |                   |                  |                  |       |
| DOE FUSRAP                                   | Y        | 1             | 0                | 0             | 0                 | 0                | 0                | 0     |
| NPL  | Y        | 1             | 0                | 0             | 0                 | 0                | 0                | 0     |
| PROPOSED NPL                                 | Y        | 1             | 0                | 0             | 0                 | 0                | 0                | 0     |
| DELETED NPL                                  | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| SEMS   | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| ODI  | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| SEMS ARCHIVE                                 | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| CERCLIS                                      | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| IODI   | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| CERCLIS NFRAP                                | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| CERCLIS LIENS                                | Y        | PO            | 0                | -             | -                 | -                | -                | 0     |
| RCRA CORRACTS                                | Y        | 1             | 0                | 0             | 0                 | 0                | 0                | 0     |
| RCRA TSD                                     | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| RCRA LQG                                     | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| RCRA SQG                                     | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| RCRA VSQG                                    | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| RCRA NON GEN                                 | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| RCRA CONTROLS                                | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| FED ENG                                      | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| FED INST                                     | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| LUCIS  | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| NPL IC                                       | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| ERNS 1982 TO 1986                            | Y        | PO            | 0                | -             | -                 | -                | -                | 0     |
| ERNS 1987 TO 1989                            | Y        | PO            | 0                | -             | -                 | -                | -                | 0     |
| ERNS   | Y        | PO            | 0                | -             | -                 | -                | -                | 0     |
| FED BROWNFIELDS                              | Y        | 0.5           | 0                | 0             | 0                 | 0                | -                | 0     |
| FEMA UST                                     | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |

| Database          | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|-------------------|----------|---------------|------------------|---------------|-------------------|------------------|------------------|-------|
| FRP               | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| DELISTED FRP      | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| HIST GAS STATIONS | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| REFN              | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| BULK TERMINAL     | Y        | 0.25          | 0                | 0             | 0                 | -                | -                | 0     |
| SEMS LIEN         | Y        | PO            | 0                | -             | -                 | -                | -                | 0     |
| SUPERFUND ROD     | Y        | 1             | 0                | 0             | 0                 | 0                | 0                | 0     |

#### State

|                       |   |      |   |   |   |   |   |   |
|-----------------------|---|------|---|---|---|---|---|---|
| BROWNFIELDS           | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| SHWS                  | Y | 1    | 0 | 2 | 0 | 3 | 1 | 6 |
| DELISTED SHWS         | Y | 1    | 0 | 0 | 0 | 0 | 0 | 0 |
| SWF/LF                | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| HIST LANDFILL         | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| SB193                 | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| PSTEAF                | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| UST                   | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED STORAGE TANK | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| ENG                   | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| INST                  | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| VCP                   | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| BROWNFIELD INV        | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |

#### Tribal

|               |   |      |   |   |   |   |   |   |
|---------------|---|------|---|---|---|---|---|---|
| INDIAN LUST   | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| INDIAN UST    | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED ILST | Y | 0.5  | 0 | 0 | 0 | 0 | - | 0 |
| DELISTED IUST | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |

#### County

**No County standard environmental record sources available for this State.**

#### Additional Environmental Records

##### Federal

|           |   |     |   |   |   |   |   |   |
|-----------|---|-----|---|---|---|---|---|---|
| FINDS/FRS | Y | PO  | 0 | - | - | - | - | 0 |
| TRIS      | Y | PO  | 0 | - | - | - | - | 0 |
| PFAS TRI  | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS NPL  | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |

| <b>Database</b>  | <b>Searched</b> | <b>Search Radius</b> | <b>Project Property</b> | <b>Within 0.12mi</b> | <b>0.125mi to 0.25mi</b> | <b>0.25mi to 0.50mi</b> | <b>0.50mi to 1.00mi</b> | <b>Total</b> |
|--|-----------------|----------------------|-------------------------|----------------------|--------------------------|-------------------------|-------------------------|--------------|
| PFAS WATER   | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| PFAS SSEHRI  | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| ERNS PFAS  | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| HMIRS  | Y               | 0.125                | 0                       | 0                    | -                        | -                       | -                       | 0            |
| NCDL   | Y               | 0.125                | 0                       | 1                    | -                        | -                       | -                       | 1            |
| TSCA   | Y               | 0.125                | 0                       | 0                    | -                        | -                       | -                       | 0            |
| HIST TSCA  | Y               | 0.125                | 0                       | 0                    | -                        | -                       | -                       | 0            |
| FTTS ADMIN   | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| FTTS INSP  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| PRP  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| SCRD DRYCLEANER  | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| ICIS   | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| FED DRYCLEANERS  | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| DELISTED FED DRY   | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| FUDS   | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| FORMER NIKE  | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| PIPELINE INCIDENT  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| MLTS   | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| HIST MLTS  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| MINES  | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| SMCRA  | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| MRDS   | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| URANIUM  | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| ALT FUELS  | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| CONSENT DECREES  | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| AFS  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| SSTS   | Y               | 0.25                 | 0                       | 0                    | 0                        | -                       | -                       | 0            |
| PCBT   | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| PCB  | Y               | 0.5                  | 0                       | 0                    | 0                        | 0                       | -                       | 0            |
| <b>State</b>   |                 |                      |                         |                      |                          |                         |                         |              |
| SPILLS   | Y               | 0.125                | 1                       | 9                    | -                        | -                       | -                       | 10           |
| CDL  | Y               | PO                   | 0                       | -                    | -                        | -                       | -                       | 0            |
| MINE   | Y               | 1                    | 0                       | 0                    | 0                        | 0                       | 0                       | 0            |
| <b>Tribal</b>  |                 |                      |                         |                      |                          |                         |                         |              |
| <b>No Tribal additional environmental record sources available for this State.</b> |                 |                      |                         |                      |                          |                         |                         |              |



| Database | Searched  | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|----------|---|---------------|------------------|---------------|-------------------|------------------|------------------|-------|
| County   | No County additional environmental record sources available for this State. |               |                  |               |                   |                  |                  |       |

---

|        |   |    |   |   |   |    |
|--------|---|----|---|---|---|----|
| Total: | 1 | 12 | 0 | 3 | 1 | 17 |
|--------|---|----|---|---|---|----|

\* PO – Property Only

\* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

| Map Key           | DB     | Company/Site Name                   | Address   | Direction | Distance (mi/ft) | Elev Diff (ft) | Page Number        |
|-------------------|--------|-------------------------------------|---|-----------|------------------|----------------|--------------------|
| <a href="#">1</a> | SPILLS | Mike Baise Property (AI ID: 111289) | 6915 Dripping Springs Rd in Barren County Glasgow KY<br><i>INC ID   Status: 2328184   Env. Closed</i> | ENE       | 0.00 / 0.00      | 74             | <a href="#">18</a> |

## Executive Summary: Site Report Summary - Surrounding Properties

| Map Key            | DB     | Company/Site Name                     | Address  | Direction | Distance (mi/ft) | Elev Diff (ft) | Page Number        |
|--------------------|--------|---------------------------------------|--|-----------|------------------|----------------|--------------------|
| <a href="#">2</a>  | SPILLS | Jeremy Reece - Reece Farms LLC        | Hwy 68/80 @ Rick Road<br>Bon Ayr KY<br><br><i>INC ID   Status:</i> 2323327   Env. Closed   | S         | 0.01 / 33.28     | 21             | <a href="#">18</a> |
| <a href="#">3</a>  | SPILLS | Ralph Rizzitiello                     | 3303 Mills Town Road - Off of Rt 255 about 2 miles from Park City<br>Park City KY<br><i>INC ID   Status:</i> 2283539   Env. Closed | NNE       | 0.01 / 37.06     | -10            | <a href="#">19</a> |
| <a href="#">4</a>  | SPILLS | Anne Stephens                         | 6744 Dripping Springs Road<br>Smiths Grove KY<br><i>INC ID   Status:</i> 2420748   Env. Closed                                     | ENE       | 0.01 / 44.13     | 78             | <a href="#">19</a> |
| <a href="#">5</a>  | SPILLS | Glasgow Water Plant (AI ID: 76)       | 10787 New Bowling Green Road<br>Glasgow KY<br><i>INC ID   Status:</i> 2467345   Env. Closed  | SW        | 0.01 / 70.81     | 18             | <a href="#">19</a> |
| <a href="#">6</a>  | SPILLS | Robert Morgan Trucking                | Cumberland PKWY 3mm EB<br>Park City KY<br><i>INC ID   Status:</i> 2348057   Env. Closed  | ENE       | 0.02 / 110.57    | 39             | <a href="#">20</a> |
| <a href="#">7</a>  | SPILLS | Bobby Martin Property (AI ID: 165483) | To the left of 6711 Dripping Springs Road behind a trailer home.<br>KY<br><i>INC ID   Status:</i> 2468055   Env. Closed            | ENE       | 0.02 / 118.37    | 70             | <a href="#">20</a> |
| <a href="#">8</a>  | SPILLS | JB Hunt                               | Cumberland Pkwy. 2.5 MM EB<br>Glasgow KY<br><i>INC ID   Status:</i> 2345846   Env. Closed  | E         | 0.02 / 118.87    | 65             | <a href="#">21</a> |
| <a href="#">9</a>  | SHWS   | Bon Ayr Toll Plaza                    | Louie B Nunn Pkwy<br>Bon Ayr KY 42141  | E         | 0.03 / 134.20    | 58             | <a href="#">21</a> |
| <a href="#">10</a> | SPILLS | Glasgow Water Plant (AI ID: 76)       | 700 Block of Rick Road<br>Glasgow KY<br><i>INC ID   Status:</i> 2334573   Env. Closed  | SSW       | 0.03 / 168.67    | 49             | <a href="#">21</a> |
| <a href="#">11</a> | SPILLS | Steven Doty Residence (AI ID: 123908) | 6921 Dripping Springs Road.<br>KY<br><i>INC ID   Status:</i> 2385296   Env. Closed   | ENE       | 0.04 / 226.50    | 75             | <a href="#">22</a> |
| <a href="#">12</a> | SHWS   | Bobby Martin Property                 | 6622 Dripping Springs Rd<br>Smiths Grove KY 42171  | ENE       | 0.07 / 345.34    | 68             | <a href="#">22</a> |
| <a href="#">12</a> | NCDL   |                                       | 6622 Dripping Springs Road<br>Smiths Grove KY  | ENE       | 0.07 / 345.34    | 68             | <a href="#">23</a> |



| <b>Map Key</b>            | <b>DB</b> | <b>Company/Site Name</b>           | <b>Address</b>                                    | <b>Direction</b> | <b>Distance (mi/ft)</b> | <b>Elev Diff (ft)</b> | <b>Page Number</b>        |
|---------------------------|-----------|------------------------------------|---|------------------|-------------------------|-----------------------|---------------------------|
| <a href="#"><u>13</u></a> | SHWS      | I-65 Tack Oil Spill - Edmonson Co  | I-65 S Mm 44<br>Rocky Hill (Edmonson) KY 42163    | NW               | 0.39 /<br>2,040.96      | -58                   | <a href="#"><u>23</u></a> |
| <a href="#"><u>14</u></a> | SHWS      | I-65 Petroleum Spill - Edmonson Co | I-65 S MM 43.8<br>Smiths Grove KY 42171           | NW               | 0.40 /<br>2,112.26      | -54                   | <a href="#"><u>23</u></a> |
| <a href="#"><u>15</u></a> | SHWS      | Bobby Martin Property              | 6100 Dripping Springs Rd<br>Smiths Grove KY 42160 | E                | 0.49 /<br>2,590.25      | 44                    | <a href="#"><u>23</u></a> |
| <a href="#"><u>16</u></a> | SHWS      | Marlene West Property              | 635 Oak Hill School Rd<br>Glasgow KY 42141        | ESE              | 0.54 /<br>2,850.45      | 74                    | <a href="#"><u>24</u></a> |

## Executive Summary: Summary by Data Source

### Standard

#### State

##### SHWS - State Leads Priority List

A search of the SHWS database, dated Nov 22, 2022 has found that there are 6 SHWS site(s) within approximately 1.00 miles of the project property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>                                    | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u>            |
|-------------------------------|---|------------------|-------------------------|---------------------------|
| Bon Ayr Toll Plaza            | Louie B Nunn Pkwy<br>Bon Ayr KY 42141             | E                | 0.03 / 134.20           | <a href="#"><u>9</u></a>  |
| Bobby Martin Property         | 6622 Dripping Springs Rd<br>Smiths Grove KY 42171 | ENE              | 0.07 / 345.34           | <a href="#"><u>12</u></a> |
| Bobby Martin Property         | 6100 Dripping Springs Rd<br>Smiths Grove KY 42160 | E                | 0.49 / 2,590.25         | <a href="#"><u>15</u></a> |
| Marlene West Property         | 635 Oak Hill School Rd<br>Glasgow KY 42141        | ESE              | 0.54 / 2,850.45         | <a href="#"><u>16</u></a> |

| <u>Lower Elevation</u>             | <u>Address</u>                                 | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u>            |
|------------------------------------|--|------------------|-------------------------|---------------------------|
| I-65 Tack Oil Spill - Edmonson Co  | I-65 S Mm 44<br>Rocky Hill (Edmonson) KY 42163 | NW               | 0.39 / 2,040.96         | <a href="#"><u>13</u></a> |
| I-65 Petroleum Spill - Edmonson Co | I-65 S MM 43.8<br>Smiths Grove KY 42171        | NW               | 0.40 / 2,112.26         | <a href="#"><u>14</u></a> |

### Non Standard

#### Federal

##### NCDL - National Clandestine Drug Labs

A search of the NCDL database, dated Aug 30, 2022 has found that there are 1 NCDL site(s) within approximately 0.12 miles of the project property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>                                | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u>            |
|-------------------------------|---|------------------|-------------------------|---------------------------|
|                               | 6622 Dripping Springs Road<br>Smiths Grove KY | ENE              | 0.07 / 345.34           | <a href="#"><u>12</u></a> |

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u> |
|-------------------------------|----------------|------------------|-------------------------|----------------|
|-------------------------------|----------------|------------------|-------------------------|----------------|

## State

### SPILLS - Incidents

A search of the SPILLS database, dated Jul 29, 2022 has found that there are 10 SPILLS site(s) within approximately 0.12 miles of the project property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u> |
|-------------------------------|----------------|------------------|-------------------------|----------------|
|-------------------------------|----------------|------------------|-------------------------|----------------|

|                                     |  |     |             |                          |
|-------------------------------------|--|-----|-------------|--------------------------|
| Mike Baise Property (AI ID: 111289) | 6915 Dripping Springs Rd in Barren County<br>Glasgow KY<br><b>INC ID   Status:</b> 2328184   Env. Closed | ENE | 0.00 / 0.00 | <a href="#"><u>1</u></a> |
|-------------------------------------|--|-----|-------------|--------------------------|

|                                |  |   |              |                          |
|--------------------------------|--|---|--------------|--------------------------|
| Jeremy Reece - Reece Farms LLC | Hwy 68/80 @ Rick Road<br>Bon Ayr KY<br><b>INC ID   Status:</b> 2323327   Env. Closed | S | 0.01 / 33.28 | <a href="#"><u>2</u></a> |
|--------------------------------|--|---|--------------|--------------------------|

|               |  |     |              |                          |
|---------------|--|-----|--------------|--------------------------|
| Anne Stephens | 6744 Dripping Springs Road<br>Smiths Grove KY<br><b>INC ID   Status:</b> 2420748   Env. Closed | ENE | 0.01 / 44.13 | <a href="#"><u>4</u></a> |
|---------------|--|-----|--------------|--------------------------|

|                                 |   |    |              |                          |
|---------------------------------|---|----|--------------|--------------------------|
| Glasgow Water Plant (AI ID: 76) | 10787 New Bowling Green Road<br>Glasgow KY<br><b>INC ID   Status:</b> 2467345   Env. Closed | SW | 0.01 / 70.81 | <a href="#"><u>5</u></a> |
|---------------------------------|---|----|--------------|--------------------------|

|                        |   |     |               |                          |
|------------------------|---|-----|---------------|--------------------------|
| Robert Morgan Trucking | Cumberland PKWY 3mm EB<br>Park City KY<br><b>INC ID   Status:</b> 2348057   Env. Closed | ENE | 0.02 / 110.57 | <a href="#"><u>6</u></a> |
|------------------------|---|-----|---------------|--------------------------|

|                                       |   |     |               |                          |
|---------------------------------------|---|-----|---------------|--------------------------|
| Bobby Martin Property (AI ID: 165483) | To the left of 6711 Dripping Springs Road behind a trailer home.<br>KY<br><b>INC ID   Status:</b> 2468055   Env. Closed | ENE | 0.02 / 118.37 | <a href="#"><u>7</u></a> |
|---------------------------------------|---|-----|---------------|--------------------------|

|         |   |   |               |                          |
|---------|---|---|---------------|--------------------------|
| JB Hunt | Cumberland Pkwy. 2.5 MM EB<br>Glasgow KY<br><b>INC ID   Status:</b> 2345846   Env. Closed | E | 0.02 / 118.87 | <a href="#"><u>8</u></a> |
|---------|---|---|---------------|--------------------------|

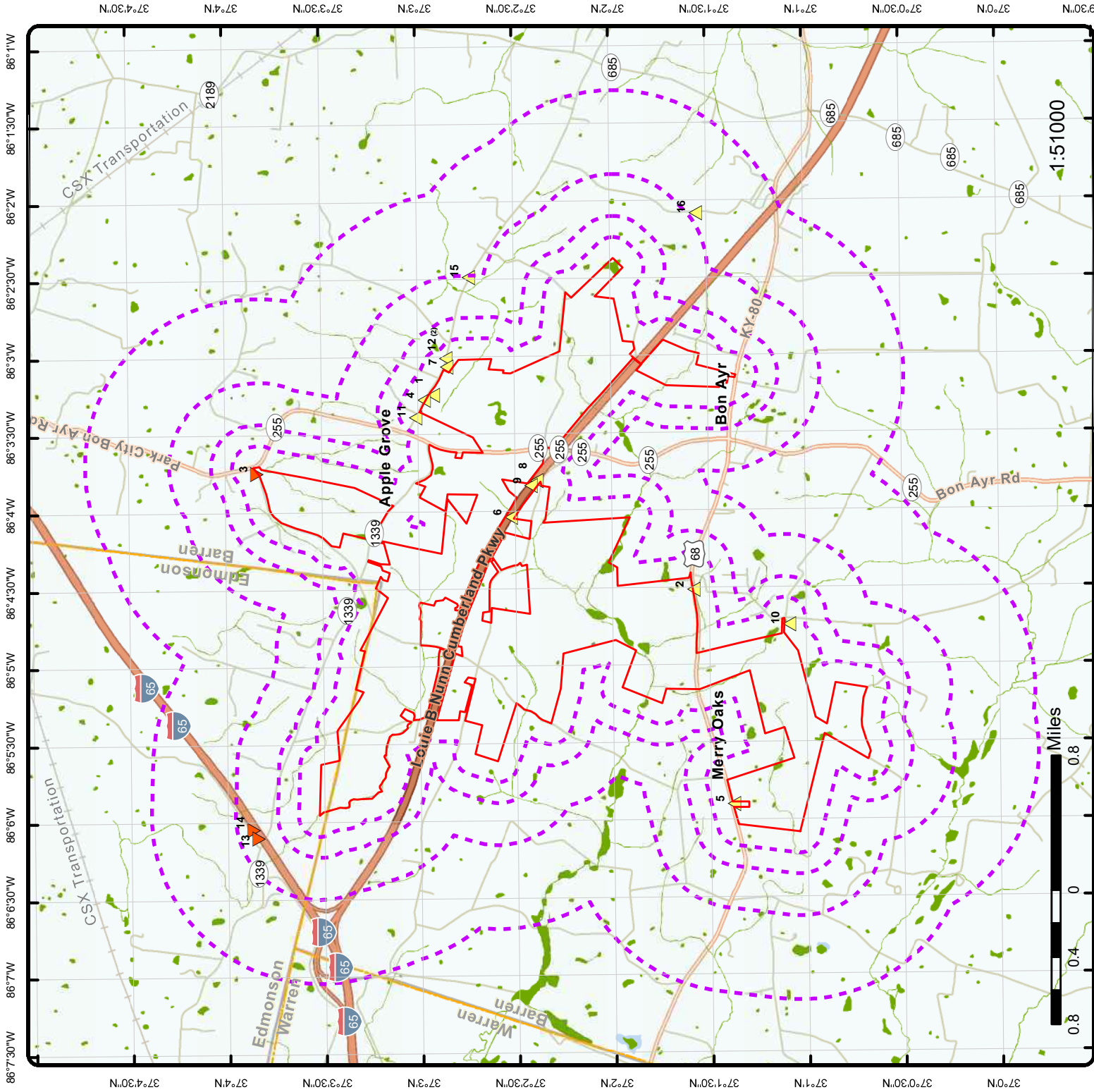
|                                 |   |     |               |                           |
|---------------------------------|---|-----|---------------|---------------------------|
| Glasgow Water Plant (AI ID: 76) | 700 Block of Rick Road<br>Glasgow KY<br><b>INC ID   Status:</b> 2334573   Env. Closed | SSW | 0.03 / 168.67 | <a href="#"><u>10</u></a> |
|---------------------------------|---|-----|---------------|---------------------------|

|                                       |  |     |               |                           |
|---------------------------------------|--|-----|---------------|---------------------------|
| Steven Doty Residence (AI ID: 123908) | 6921 Dripping Springs Road.<br>KY<br><b>INC ID   Status:</b> 2385296   Env. Closed | ENE | 0.04 / 226.50 | <a href="#"><u>11</u></a> |
|---------------------------------------|--|-----|---------------|---------------------------|

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (mi/ft)</u> | <u>Map Key</u> |
|------------------------|----------------|------------------|-------------------------|----------------|
|------------------------|----------------|------------------|-------------------------|----------------|

|                   |  |     |              |                          |
|-------------------|--|-----|--------------|--------------------------|
| Ralph Rizzitiello | 3303 Mills Town Road - Off of Rt 255 about 2 miles from Park City<br>Park City KY<br><b>INC ID   Status:</b> 2283539   Env. Closed | NNE | 0.01 / 37.06 | <a href="#"><u>3</u></a> |
|-------------------|--|-----|--------------|--------------------------|

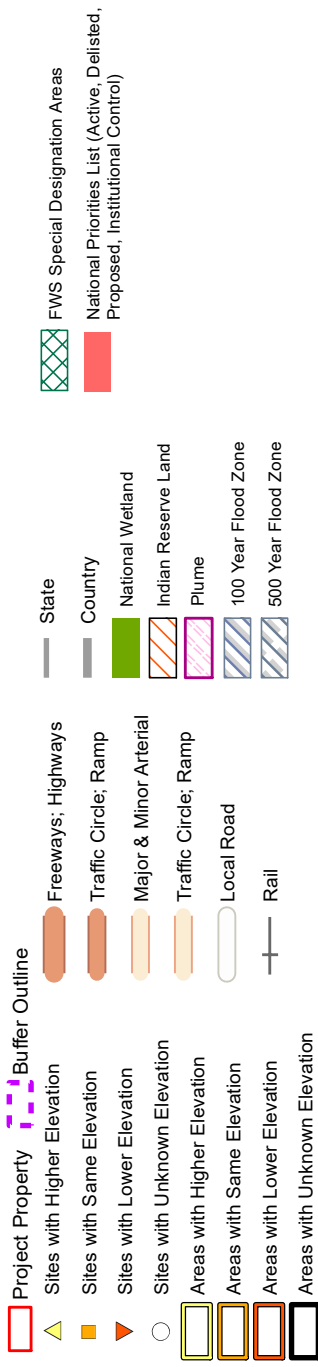


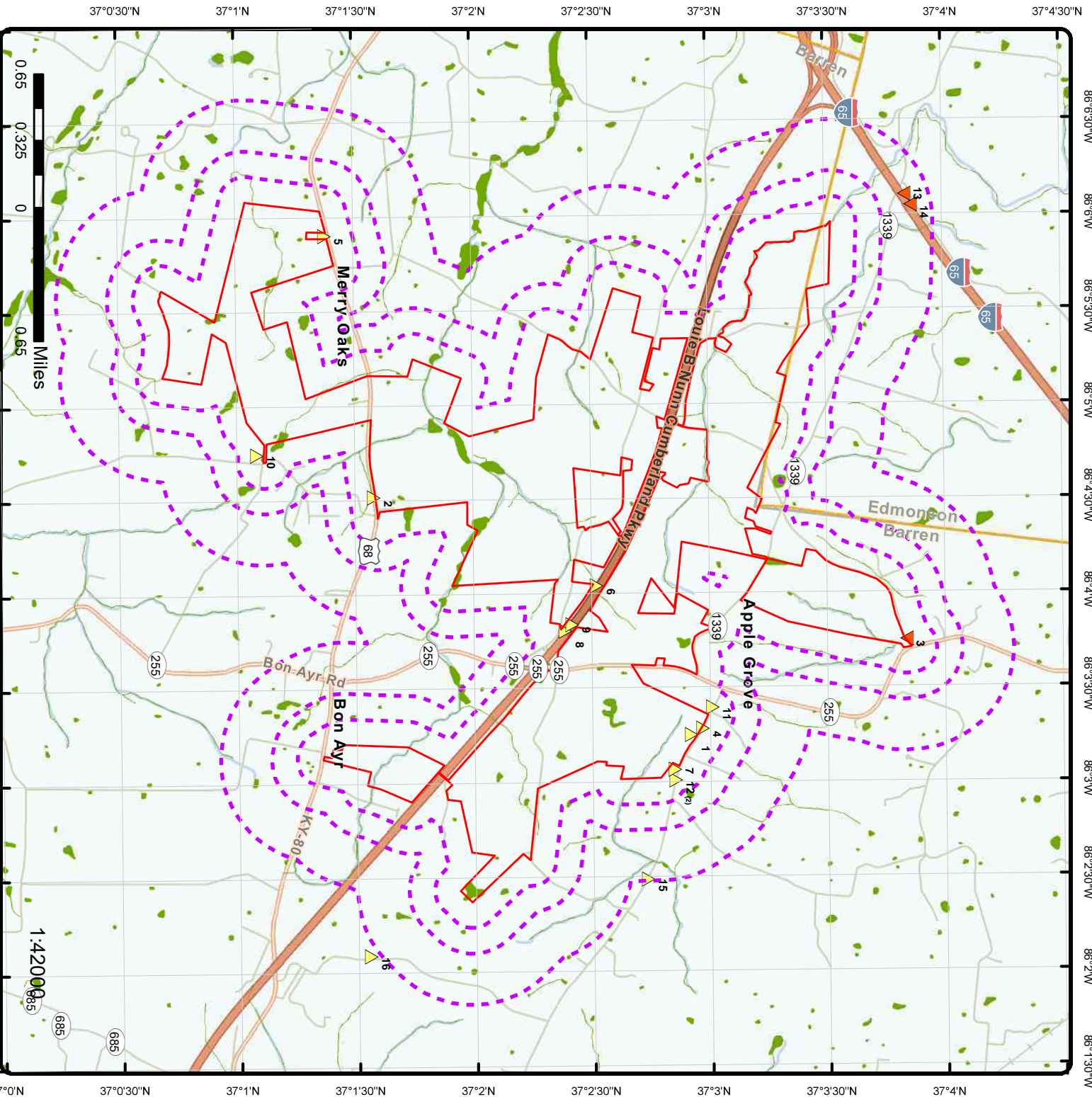


## Map: 1.0 Mile Radius

Order Number: 22121200544

Address: N/A, Smiths Grove, KY

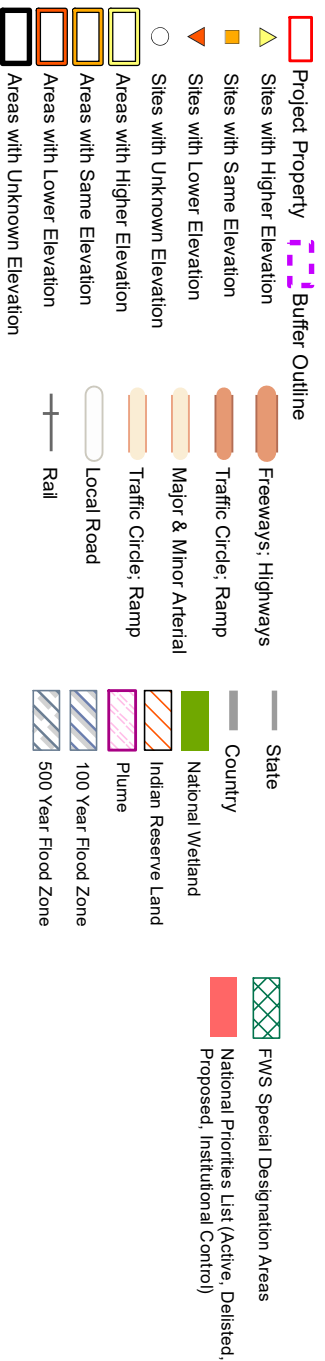




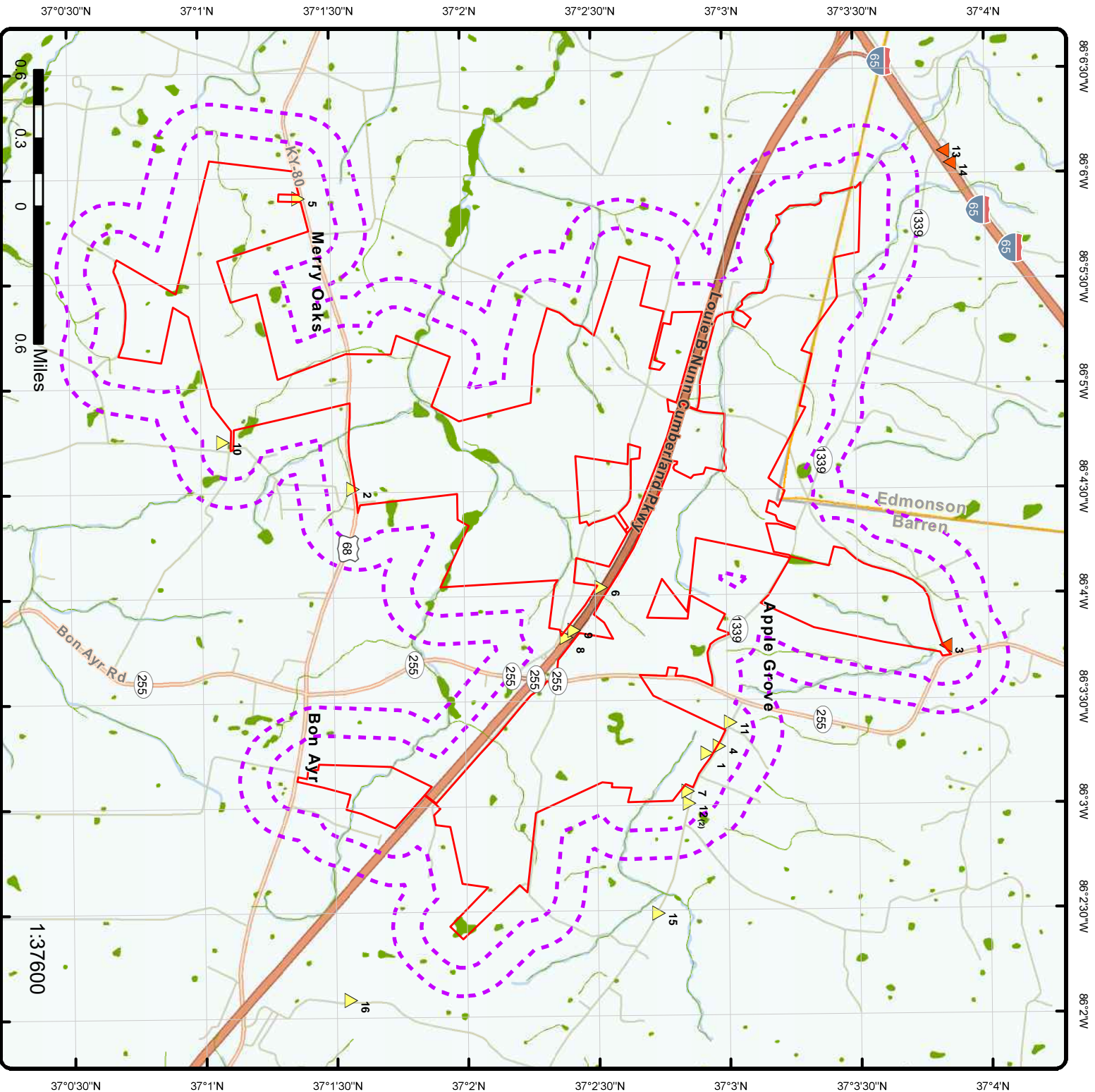
## Map: 0.5 Mile Radius

Order Number: 22121200544

Address: N/A, Smiths Grove, KY



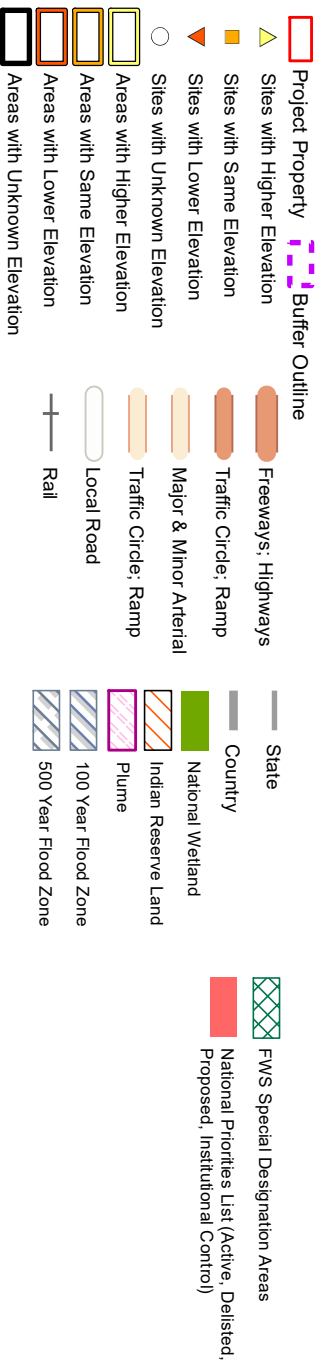




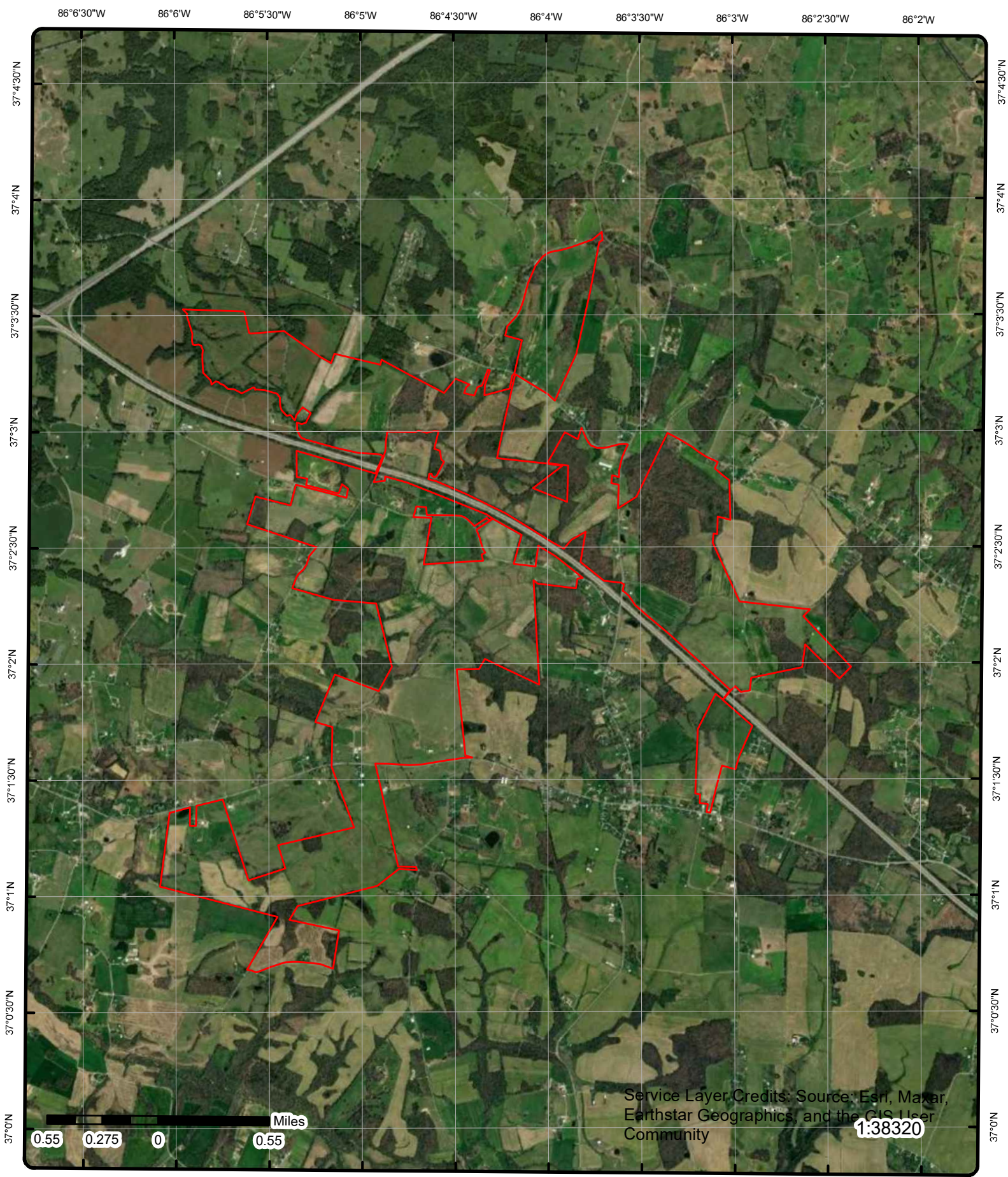
## Map: 0.25 Mile Radius

Order Number: 22121200544

Address: N/A, Smiths Grove, KY







**Aerial** Year: 2021

Order Number: 22121200544

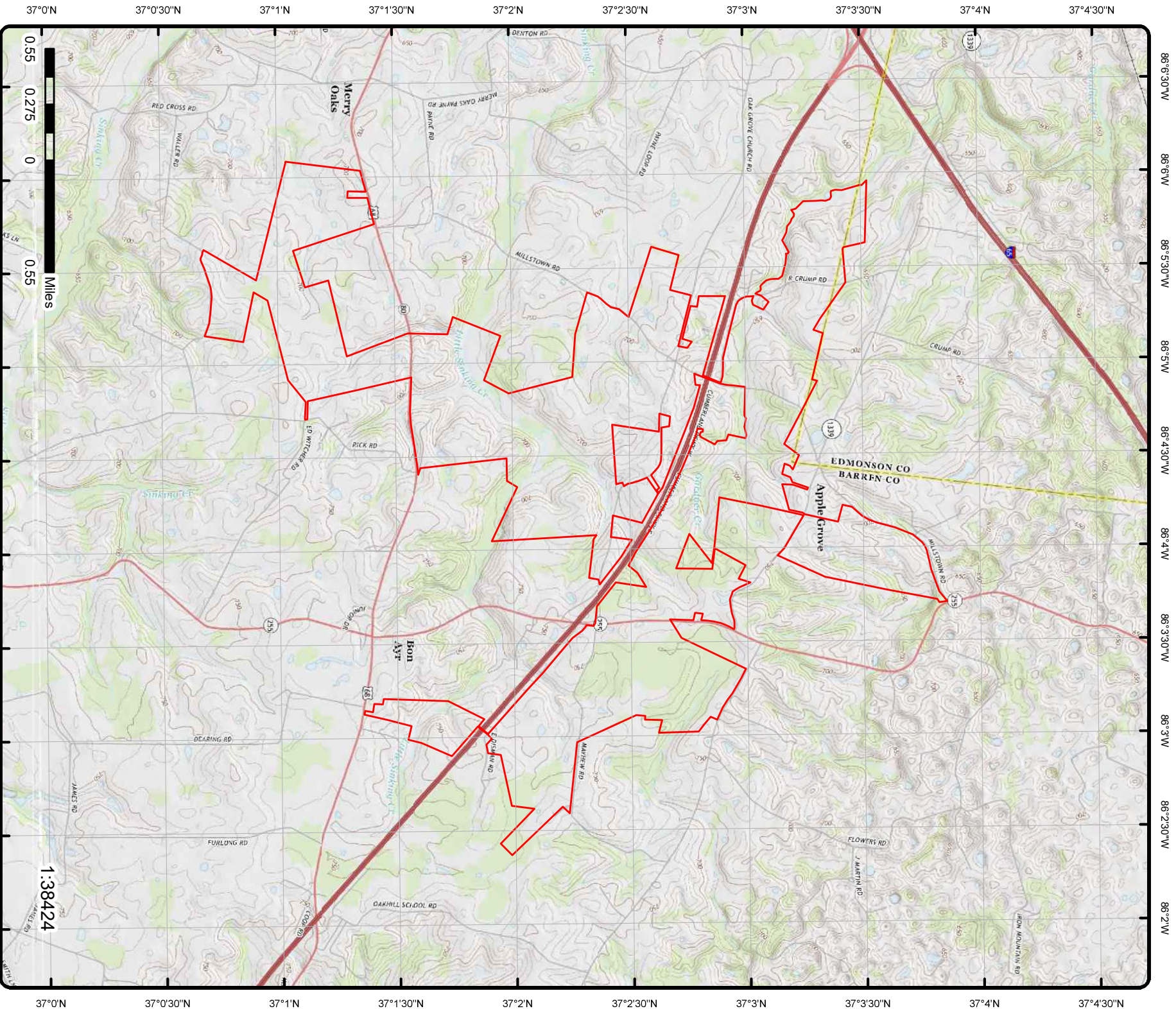
Address: N/A, Smiths Grove, KY



© ERIS Information Inc.

Source: ESRI World Imagery





# Topographic Map

Year: 2016

Address: N/A, KY

Quadrangle(s): Smiths Grove, KY; Park City, KY; Meador, KY; Lucas, KY

Source: USGS Topographic Map

Order Number: 22121200544



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# Detail Report

| Map Key  | Number of Records | Direction             | Distance (mi/ft) | Elev/Diff (ft) | Site   | DB     |
|--|-------------------|-----------------------|------------------|----------------|--|--------|
| <a href="#">1</a>  | 1 of 1            | ENE                   | 0.00 / 0.00      | 757.99 / 74    | Mike Baise Property (AI ID: 111289)<br>6915 Dripping Springs Rd in Barren County<br>Glasgow KY | SPILLS |
| <div> <div> <b>INC ID:</b> 2328184<br/> <b>MARS Function Code:</b><br/> <b>Status:</b> Env. Closed<br/> <b>Priority:</b> Routine<br/> <b>Program Code:</b> 01<br/> <b>Program:</b> Air<br/> <b>Substances:</b> PM2.5 (Particulate Matter - 2.5 Microns Or Less):<br/> <b>Closure Type Desc:</b> Env. Closed-No Action Necessary<br/> <b>Incident End Date:</b> 5/12/2011<br/> <b>Begin Emerg Dt:</b><br/> <b>End Emerg Dt:</b><br/> <b>Record Date:</b><br/> <b>First Report Date:</b> 4/19/2011 10:30:27 AM<br/> <b>Completed:</b> Yes<br/> <b>Source:</b> Mike Baise Property (AI ID: 111289)<br/> <b>Incident Type S:</b> OPEN BURNING<br/> <b>Incident Desc:</b> burned brush pile containing 3-4 tires<br/> <b>Location Desc:</b> 6915 Dripping Springs Rd in Barren County<br/> <b>Other Substance Desc:</b><br/> <b>Z Coordinate Method Desc:</b> Handheld GPS - Not Differentially Corrected </div> <div> <b>Notification:</b> No<br/> <b>Date:</b> 4/18/2011<br/> <b>Lead Invest ID:</b> 34816<br/> <b>Lead Investigator:</b> Clemmons, Todd<br/> <b>Flw Up Prior Desc:</b> Routine<br/> <b>Recen Cpl Eval Act:</b> AI: 111289 CIV20110002<br/> <b>Recent ENF Act:</b> AI: 111289 ENV20110001<br/> <b>Locked Flag:</b> Yes<br/> <b>Waterbody:</b><br/> <b>Regional Office:</b> Bowling Green Regional Office<br/> <b>County:</b> Barren<br/> <b>Lat Dec Degrees:</b> 37.04925<br/> <b>Long Dec Degrees:</b> -86.054806 </div> </div>  |                   |                       |                  |                |  |        |
| <a href="#">2</a>  | 1 of 1            | S                     | 0.01 / 33.28     | 704.58 / 21    | Jeremy Reece - Reece Farms LLC<br>Hwy 68/80 @ Rick Road<br>Bon Ayr KY                          | SPILLS |
| <div> <div> <b>INC ID:</b> 2323327<br/> <b>MARS Function Code:</b> L660<br/> <b>Status:</b> Env. Closed<br/> <b>Priority:</b> Emergency, Immed. Resp.<br/> <b>Program Code:</b> 04<br/> <b>Program:</b> Env Protection<br/> <b>Substances:</b> Diesel:80<br/> <b>Closure Type Desc:</b> Env. Closed-Mitigated<br/> <b>Incident End Date:</b> 1/25/2011<br/> <b>Begin Emerg Dt:</b> 1/25/2011<br/> <b>End Emerg Dt:</b> 1/25/2011<br/> <b>Record Date:</b><br/> <b>First Report Date:</b> 1/25/2011 1:14:00 PM<br/> <b>Completed:</b> Yes<br/> <b>Source:</b> Jeremy Reece - Reece Farms LLC<br/> <b>Incident Type S:</b> NON-NOTIFIER; TRANSPORTATION ACCIDENT - TRUCK<br/> <b>Incident Desc:</b> CMV vs. POV accident. 80 gallons diesel fuel spilled. First Response is enroute for cleanup. </div> <div> <b>Notification:</b> No<br/> <b>Date:</b> 1/25/2011<br/> <b>Lead Invest ID:</b> 9474<br/> <b>Lead Investigator:</b> McGuffey, Robbie<br/> <b>Flw Up Prior Desc:</b> Routine<br/> <b>Recen Cpl Eval Act:</b><br/> <b>Recent ENF Act:</b><br/> <b>Locked Flag:</b> Yes<br/> <b>Waterbody:</b><br/> <b>Regional Office:</b> Unknown<br/> <b>County:</b> Barren<br/> <b>Lat Dec Degrees:</b> 86.075306<br/> <b>Long Dec Degrees:</b> -37.026333 </div> </div> <p>15:00 - Robbie McGuffey reports that most of the fuel is contained to the ditch. The FD has been allowed to wash off the road so that it can be re-opened. First Response will recover what they can today, but may have to return in drier weather to complete soil excavation.</p> <p>1/25/11 @ 17:45 - From Rob McGuffey - "Oil dry place on hwy 68-80 and brushed off by First Response. Estimated 100-125 gallons of diesel in ditchline. Boom and oil dry placed in ditch. First Response will return to dig soil later this week. Road reopened at 3:45 pm."</p> |                   |                       |                  |                |  |        |
| <b>Location Desc:</b>  |                   | Hwy 68/80 @ Rick Road |                  |                |  |        |

| Map Key  | Number of Records | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site   | DB     |
|--|-------------------|-----------|------------------|----------------|--|--------|
| <b>Other Substance Desc:</b><br><b>Z Coordinate Method Desc:</b> Handheld GPS - Not Differentially Corrected   |                   |           |                  |                |  |        |
| <u>3</u>   | 1 of 1            | NNE       | 0.01 / 37.06     | 673.88 / -10   | Ralph Rizzitiello<br>3303 Mills Town Road - Off of Rt 255 about 2 miles from Park City<br>Park City KY | SPILLS |
| <b>INC ID:</b> 2283539<br><b>MARS Function Code:</b><br><b>Status:</b> Env. Closed<br><b>Priority:</b> Routine<br><b>Program Code:</b> 13<br><b>Program:</b> Water Resources<br><b>Substances:</b><br><b>Closure Type Desc:</b><br><b>Incident End Date:</b> 9/16/2008<br><b>Begin Emerg Dt:</b><br><b>End Emerg Dt:</b><br><b>Record Date:</b><br><b>First Report Date:</b> 9/2/2008 12:00:25 PM<br><b>Completed:</b> Yes<br><b>Source:</b> Ralph Rizzitiello<br><b>Incident Type S:</b> DAM - OTHER<br><b>Incident Desc:</b> Someone has dammed up the creek to make a pond.<br><b>Location Desc:</b> 3303 Mills Town Road - Off of Rt 255 about 2 miles from Park City<br><b>Other Substance Desc:</b><br><b>Z Coordinate Method Desc:</b> Handheld GPS - Not Differentially Corrected  |                   |           |                  |                |  |        |
| <b>Notification:</b> No<br><b>Date:</b> 9/2/2008<br><b>Lead Invest ID:</b> 18519<br><b>Lead Investigator:</b> Martter, Tina<br><b>Flw Up Prior Desc:</b><br><b>Recen Cpl Eval Act:</b><br><b>Recent ENF Act:</b><br><b>Locked Flag:</b> Yes<br><b>Waterbody:</b><br><b>Regional Office:</b> Bowling Green Regional Office<br><b>County:</b> Barren<br><b>Lat Dac Degrees:</b> 37.062139<br><b>Long Dec Degrees:</b> -86.067778   |                   |           |                  |                |  |        |
| <u>4</u>   | 1 of 1            | ENE       | 0.01 / 44.13     | 762.20 / 78    | Anne Stephens<br>6744 Dripping Springs Road<br>Smiths Grove KY   | SPILLS |
| <b>INC ID:</b> 2420748<br><b>MARS Function Code:</b> Q503<br><b>Status:</b> Env. Closed<br><b>Priority:</b> Emergency, Immed. Resp.<br><b>Program Code:</b> 04<br><b>Program:</b> Env Protection<br><b>Substances:</b> Mercury Vapor:<br><b>Closure Type Desc:</b> Env. Closed-Restored<br><b>Incident End Date:</b> 2/27/2017<br><b>Begin Emerg Dt:</b> 1/12/2017<br><b>End Emerg Dt:</b> 1/12/2017<br><b>Record Date:</b><br><b>First Report Date:</b> 1/12/2017 12:45:00 PM<br><b>Completed:</b> No<br><b>Source:</b> Anne Stephens<br><b>Incident Type S:</b> INCIDENT NOT LISTED<br><b>Incident Desc:</b> Caller broke a 3' fluorescent light. It is in a basement storage room on concrete. Her husband swept up the broken glass, wet the floor and wiped it up to "tack" up any residual glass, and then sealed the floor with wax, and has ventilated the room with a fan for 2 days. The caller is undergoing chelation treatment for previous mercury exposure, and requests ERT to respond and ensure there are no vapors present.<br><b>Location Desc:</b> 6744 Dripping Springs Road<br><b>Other Substance Desc:</b><br><b>Z Coordinate Method Desc:</b> Handheld GPS - Not Differentially Corrected |                   |           |                  |                |  |        |
| <b>Notification:</b> Yes<br><b>Date:</b> 1/12/2017<br><b>Lead Invest ID:</b> 48881<br><b>Lead Investigator:</b> Cary, Brent<br><b>Flw Up Prior Desc:</b><br><b>Recen Cpl Eval Act:</b><br><b>Recent ENF Act:</b><br><b>Locked Flag:</b> Yes<br><b>Waterbody:</b><br><b>Regional Office:</b> Unknown<br><b>County:</b> Warren<br><b>Lat Dac Degrees:</b> 37.052292<br><b>Long Dec Degrees:</b> -86.04995  |                   |           |                  |                |  |        |
| <u>5</u>   | 1 of 1            | SW        | 0.01 / 70.81     | 702.02 / 18    | Glasgow Water Plant (AI ID: 76)<br>10787 New Bowling Green Road<br>Glasgow KY                          | SPILLS |
| <b>INC ID:</b> 2467345<br><b>MARS Function Code:</b><br><b>Notification:</b> Yes<br><b>Date:</b> 3/12/2020   |                   |           |                  |                |  |        |



| Map Key                          | Number of Records  | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site  | DB |
|----------------------------------|--|-----------|------------------|----------------|---|----|
| <b>Status:</b>                   | Env. Closed  |           |                  |                | <b>Lead Invest ID:</b> 64267                          |    |
| <b>Priority:</b>                 | Routine  |           |                  |                | <b>Lead Investigator:</b> Horn, Michael               |    |
| <b>Program Code:</b>             | 03   |           |                  |                | <b>Flw Up Prior Desc:</b>                             |    |
| <b>Program:</b>                  | Drinking Water   |           |                  |                | <b>Recen Cpl Eval Act:</b>                            |    |
| <b>Substances:</b>               | Population Affected:24   |           |                  |                | <b>Recent ENF Act:</b>                                |    |
| <b>Closure Type Desc:</b>        | Env. Closed-No Action/Managed  |           |                  |                | <b>Locked Flag:</b> Yes                               |    |
| <b>Incident End Date:</b>        | 3/12/2020  |           |                  |                | <b>Waterbody:</b>                                     |    |
| <b>Begin Emerg Dt:</b>           |  |           |                  |                | <b>Regional Office:</b> Bowling Green Regional Office |    |
| <b>End Emerg Dt:</b>             |  |           |                  |                | <b>County:</b> Barren                                 |    |
| <b>Record Date:</b>              |  |           |                  |                | <b>Lat Dec Degrees:</b> 37.031222                     |    |
| <b>First Report Date:</b>        | 3/12/2020 9:10:00 AM   |           |                  |                | <b>Long Dec Degrees:</b> -85.910411                   |    |
| <b>Completed:</b>                | No   |           |                  |                |   |    |
| <b>Source:</b>                   | Glasgow Water Plant (AI ID: 76)  |           |                  |                |   |    |
| <b>Incident Type S:</b>          | DW-LINE BREAK/LEAK   |           |                  |                |   |    |
| <b>Incident Desc:</b>            | Nature of Incident: 10787 New Bowling Green Road water leak Cause/Duration of Incident: Contractor pulled saddle off main<br>1.5 hours Action Taken: Line was repaired<br>Line will be flushed<br>Bac-T's will be taken Estimated Time to Repair: 1.5 hours Line Size(inches): 6 Line Type: PVC Population Affected: 24 Customers Public Notice Method: Hand Bills Other Public Water Systems Affected?: No Bacteriological Samples to be Collected?: Yes Health Department Notified?: Yes Boil Water Advisory Issued?: Yes 10787 New Bowling Green Road |           |                  |                |   |    |
| <b>Location Desc:</b>            |  |           |                  |                |   |    |
| <b>Other Substance Desc:</b>     |  |           |                  |                |   |    |
| <b>Z Coordinate Method Desc:</b> | Unknown  |           |                  |                |   |    |

|                                  |   |     |               |             |  |        |
|----------------------------------|---|-----|---------------|-------------|--|--------|
| <u>6</u>                         | 1 of 1  | ENE | 0.02 / 110.57 | 722.92 / 39 | Robert Morgan Trucking<br>Cumberland PKWY 3mm EB<br>Park City KY | SPILLS |
| <b>INC ID:</b>                   | 2348057   |     |               |             | <b>Notification:</b> No  |        |
| <b>MARS Function Code:</b>       | M869  |     |               |             | <b>Date:</b> 6/17/2012   |        |
| <b>Status:</b>                   | Env. Closed   |     |               |             | <b>Lead Invest ID:</b> 9474                                      |        |
| <b>Priority:</b>                 | Emergency, Immed. Resp.   |     |               |             | <b>Lead Investigator:</b> McGuffey, Robbie                       |        |
| <b>Program Code:</b>             | 04  |     |               |             | <b>Flw Up Prior Desc:</b> Routine                                |        |
| <b>Program:</b>                  | Env Protection  |     |               |             | <b>Recen Cpl Eval Act:</b>                                       |        |
| <b>Substances:</b>               | Diesel:30   |     |               |             | <b>Recent ENF Act:</b>   |        |
| <b>Closure Type Desc:</b>        | Env. Closed-Mitigated   |     |               |             | <b>Locked Flag:</b> Yes  |        |
| <b>Incident End Date:</b>        | 6/17/2012   |     |               |             | <b>Waterbody:</b>  |        |
| <b>Begin Emerg Dt:</b>           | 6/17/2012 9:17:29 AM  |     |               |             | <b>Regional Office:</b> Unknown                                  |        |
| <b>End Emerg Dt:</b>             | 6/17/2012 10:15:00 AM   |     |               |             | <b>County:</b> Barren  |        |
| <b>Record Date:</b>              |   |     |               |             | <b>Lat Dec Degrees:</b> 86.067331                                |        |
| <b>First Report Date:</b>        | 6/18/2012 8:56:41 AM  |     |               |             | <b>Long Dec Degrees:</b> -37.042058                              |        |
| <b>Completed:</b>                | Yes   |     |               |             |  |        |
| <b>Source:</b>                   | Robert Morgan Trucking  |     |               |             |  |        |
| <b>Incident Type S:</b>          | TRANSPORTATION ACCIDENT - TRUCK   |     |               |             |  |        |
| <b>Incident Desc:</b>            | POV Vs. CMV accident at the 3mm on the Cumberland parkway. There is a large fuel spill with the accident. |     |               |             |  |        |
| <b>Location Desc:</b>            | Cumberland PKWY 3mm EB  |     |               |             |  |        |
| <b>Other Substance Desc:</b>     |   |     |               |             |  |        |
| <b>Z Coordinate Method Desc:</b> | Map Grade GPS - Not Differentially Corrected  |     |               |             |  |        |

|                            |                     |     |               |             |   |        |
|----------------------------|---------------------|-----|---------------|-------------|---|--------|
| <u>7</u>                   | 1 of 1              | ENE | 0.02 / 118.37 | 754.50 / 70 | Bobby Martin Property (AI ID: 165483)<br>To the left of 6711 Dripping Springs Road behind a trailer home.<br>KY | SPILLS |
| <b>INC ID:</b>             | 2468055             |     |               |             | <b>Notification:</b> No   |        |
| <b>MARS Function Code:</b> |                     |     |               |             | <b>Date:</b> 3/30/2020  |        |
| <b>Status:</b>             | Env. Closed         |     |               |             | <b>Lead Invest ID:</b> 9476   |        |
| <b>Priority:</b>           | Routine             |     |               |             | <b>Lead Investigator:</b> Johnston, Todd  |        |
| <b>Program Code:</b>       | 01                  |     |               |             | <b>Flw Up Prior Desc:</b> Routine   |        |
| <b>Program:</b>            | Air                 |     |               |             | <b>Recen Cpl Eval Act:</b>  |        |
| <b>Substances:</b>         |                     |     |               |             | <b>Recent ENF Act:</b>  |        |
| <b>Closure Type Desc:</b>  | Env. Closed-Managed |     |               |             | <b>Locked Flag:</b> Yes   |        |

| Map Key  | Number of Records | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site | DB |
|--|-------------------|-----------|------------------|----------------|------|----|
| <b>Incident End Date:</b> 4/17/2020<br><b>Begin Emerg Dt:</b><br><b>End Emerg Dt:</b><br><b>Record Date:</b><br><b>First Report Date:</b> 3/30/2020 1:26:06 PM<br><b>Completed:</b> Yes<br><b>Source:</b> Bobby Martin Property (AI ID: 165483)<br><b>Incident Type S:</b> OPEN BURNING<br><b>Incident Desc:</b> Open burning occurring behind a trailer to the left of 6711 Dripping Springs Road. The complaint said the smoke was really bad.<br><b>Location Desc:</b> To the left of 6711 Dripping Springs Road behind a trailer home.<br><b>Other Substance Desc:</b><br><b>Z Coordinate Method Desc:</b> Paper or Internet Map Interpolation |                   |           |                  |                |      |    |
| <b>Waterbody:</b><br><b>Regional Office:</b> Bowling Green Regional Office<br><b>County:</b> Barren<br><b>Lat Dac Degrees:</b> 37.047478<br><b>Long Dec Degrees:</b> -86.051124  |                   |           |                  |                |      |    |

|   |        |   |               |             |   |        |
|---|--------|---|---------------|-------------|---|--------|
| <u>8</u>  | 1 of 1 | E | 0.02 / 118.87 | 748.87 / 65 | JB Hunt<br>Cumberland Pkwy. 2.5 MM EB<br>Glasgow KY | SPILLS |
| <b>INC ID:</b> 2345846<br><b>MARS Function Code:</b> M723<br><b>Status:</b> Env. Closed<br><b>Priority:</b> Emergency, Immed. Resp.<br><b>Program Code:</b> 08<br><b>Program:</b> Solid Waste<br><b>Substances:</b><br><b>Closure Type Desc:</b> Env. Closed-Mitigated<br><b>Incident End Date:</b> 5/2/2012<br><b>Begin Emerg Dt:</b> 4/19/2012<br><b>End Emerg Dt:</b> 4/19/2012<br><b>Record Date:</b><br><b>First Report Date:</b> 4/19/2012 2:03:21 PM<br><b>Completed:</b> Yes<br><b>Source:</b> JB Hunt<br><b>Incident Type S:</b> TRANSPORTATION ACCIDENT - TRUCK<br><b>Incident Desc:</b> Tony Richey, Barren County EM Director called to report a CMV accident on the Cumberland PKWY @ 3 mm. Two to three tons of chicken feed has been spilled onto the roadway.<br><b>Location Desc:</b> Cumberland Pkwy. 2.5 MM EB<br><b>Other Substance Desc:</b> chicken feed<br><b>Z Coordinate Method Desc:</b> Map Grade GPS - Differentially Corrected |        |   |               |             |   |        |
| <b>Notification:</b> No<br><b>Date:</b> 4/19/2012<br><b>Lead Invest ID:</b> 9476<br><b>Lead Investigator:</b> Johnston, Todd<br><b>Flw Up Prior Desc:</b><br><b>Recen Cpl Eval Act:</b><br><b>Recent ENF Act:</b><br><b>Locked Flag:</b> Yes<br><b>Waterbody:</b><br><b>Regional Office:</b> Bowling Green Regional Office<br><b>County:</b> Barren<br><b>Lat Dac Degrees:</b> 37.0398<br><b>Long Dec Degrees:</b> 86.0634  |        |   |               |             |   |        |

|          |        |   |               |             |   |      |
|----------|--------|---|---------------|-------------|---|------|
| <u>9</u> | 1 of 1 | E | 0.03 / 134.20 | 742.30 / 58 | Bon Ayr Toll Plaza<br>Louie B Nunn Pkwy<br>Bon Ayr KY 42141 | SHWS |
|----------|--------|---|---------------|-------------|---|------|

**Agency Interest ID:** 97587  
**AI State:** KY  
**AI County:** Barren  
**AI Lat:** 37.0403  
**AI Long:** -86.063974

#### Detail

**AAZZ No:** 1  
**Site Status:** CL03  
**Closure Option:** Option A No Action Necessary  
**Closure Date:** 8/24/2007  
**Regulatory Desc:** State Superfund  
**SI Desg:** KTC Property  
**SI County:** Barren  
**Acreage:**  
**SI Description:** Closed Option A 92 MOA  
**SI Address Line 1:** Louie B. Nunn Parkway  
**SI Address Line 2:**  
**SI City:** Bon Ayr  
**SI State:** KY  
**SI Zip:** 42141  
**SI Long:** -86.062071  
**SI Lat:** 37.038639

|           |        |     |               |             |   |        |
|-----------|--------|-----|---------------|-------------|---|--------|
| <u>10</u> | 1 of 1 | SSW | 0.03 / 168.67 | 732.68 / 49 | Glasgow Water Plant (AI ID: 76)<br>700 Block of Rick Road<br>Glasgow KY | SPILLS |
|-----------|--------|-----|---------------|-------------|---|--------|

| Map Key                          | Number of Records   | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site                       | DB                            |
|----------------------------------|---|-----------|------------------|----------------|----------------------------|-------------------------------|
| <hr/>                            |   |           |                  |                |                            |                               |
| <b>INC ID:</b>                   | 2334573   |           |                  |                | <b>Notification:</b>       | Yes                           |
| <b>MARS Function Code:</b>       |   |           |                  |                | <b>Date:</b>               | 7/29/2011                     |
| <b>Status:</b>                   | Env. Closed   |           |                  |                | <b>Lead Invest ID:</b>     | 18519                         |
| <b>Priority:</b>                 | Routine   |           |                  |                | <b>Lead Investigator:</b>  | Martter, Tina                 |
| <b>Program Code:</b>             | 03  |           |                  |                | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Drinking Water  |           |                  |                | <b>Recen Cpl Eval Act:</b> |                               |
| <b>Substances:</b>               | Population Affected:32  |           |                  |                | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>        | Env. Closed-No Action/Managed   |           |                  |                | <b>Locked Flag:</b>        | Yes                           |
| <b>Incident End Date:</b>        | 7/29/2011   |           |                  |                | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |   |           |                  |                | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |   |           |                  |                | <b>County:</b>             | Barren                        |
| <b>Record Date:</b>              |   |           |                  |                | <b>Lat Dec Degrees:</b>    | 37.031222                     |
| <b>First Report Date:</b>        | 7/29/2011 3:32:00 PM  |           |                  |                | <b>Long Dec Degrees:</b>   | -85.910411                    |
| <b>Completed:</b>                | No  |           |                  |                |                            |                               |
| <b>Source:</b>                   | Glasgow Water Plant (AI ID: 76)   |           |                  |                |                            |                               |
| <b>Incident Type S:</b>          | DW-LINE BREAK/LEAK  |           |                  |                |                            |                               |
| <b>Incident Desc:</b>            | Nature of Incident: Water line break Cause/Duration of Incident: Telephone contractor hit line. Estimated Time to Repair: 1 hr 35 mins Line Size(inches): 4 inch Line Type: PVC Population Affected: 32 Taps Public Notice Method: Hand Bills Other Public Water Systems Affected?: No Bacteriological Samples to be Collected?: Yes Health Department Notified?: No Boil Water Advisory Issued?: Yes |           |                  |                |                            |                               |
| <b>Location Desc:</b>            | 700 Block of Rick Road  |           |                  |                |                            |                               |
| <b>Other Substance Desc:</b>     |   |           |                  |                |                            |                               |
| <b>Z Coordinate Method Desc:</b> | Unknown   |           |                  |                |                            |                               |

|                                  |   |     |               |             |  |                               |
|----------------------------------|---|-----|---------------|-------------|--|-------------------------------|
| <a href="#"><u>11</u></a>        | 1 of 1  | ENE | 0.04 / 226.50 | 758.94 / 75 | Steven Doty Residence (AI ID: 123908)<br>6921 Dripping Springs Road.<br>KY | SPILLS                        |
| <hr/>                            |   |     |               |             |  |                               |
| <b>INC ID:</b>                   | 2385296   |     |               |             | <b>Notification:</b>   | No                            |
| <b>MARS Function Code:</b>       |   |     |               |             | <b>Date:</b>   | 10/1/2014                     |
| <b>Status:</b>                   | Env. Closed   |     |               |             | <b>Lead Invest ID:</b>   | 9476                          |
| <b>Priority:</b>                 | Routine   |     |               |             | <b>Lead Investigator:</b>  | Johnston, Todd                |
| <b>Program Code:</b>             | 01  |     |               |             | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Air   |     |               |             | <b>Recen Cpl Eval Act:</b>   | AI: 123908 CIV20140002        |
| <b>Substances:</b>               | PM10 (Particulate Matter - 10 Microns Or Less):   |     |               |             | <b>Recent ENF Act:</b>   |                               |
| <b>Closure Type Desc:</b>        | Env. Closed-Mitigated   |     |               |             | <b>Locked Flag:</b>  | Yes                           |
| <b>Incident End Date:</b>        | 11/18/2014  |     |               |             | <b>Waterbody:</b>  |                               |
| <b>Begin Emerg Dt:</b>           |   |     |               |             | <b>Regional Office:</b>  | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |   |     |               |             | <b>County:</b>   | Barren                        |
| <b>Record Date:</b>              |   |     |               |             | <b>Lat Dec Degrees:</b>  | 37.049341                     |
| <b>First Report Date:</b>        | 10/13/2014 11:33:58 AM  |     |               |             | <b>Long Dec Degrees:</b>   | -86.055058                    |
| <b>Completed:</b>                | Yes   |     |               |             |  |                               |
| <b>Source:</b>                   | Steven Doty Residence (AI ID: 123908)   |     |               |             |  |                               |
| <b>Incident Type S:</b>          | OPEN BURNING  |     |               |             |  |                               |
| <b>Incident Desc:</b>            | Illegal open burning on Dripping Springs Road. Complainant stated we have cited people in the vicinity previously. They did not know the exact location of the burning. |     |               |             |  |                               |
| <b>Location Desc:</b>            | 6921 Dripping Springs Road.   |     |               |             |  |                               |
| <b>Other Substance Desc:</b>     |   |     |               |             |  |                               |
| <b>Z Coordinate Method Desc:</b> | Map Grade GPS - Not Differentially Corrected  |     |               |             |  |                               |

|                            |        |     |               |                 |  |      |
|----------------------------|--------|-----|---------------|-----------------|--|------|
| <a href="#"><u>12</u></a>  | 1 of 2 | ENE | 0.07 / 345.34 | 752.42 / 68     | Bobby Martin Property<br>6622 Dripping Springs Rd<br>Smiths Grove KY 42171 | SHWS |
| <hr/>                      |        |     |               |                 |  |      |
| <b>Agency Interest ID:</b> | 125866 |     |               | <b>AI Lat:</b>  | 37.04699   |      |
| <b>AI State:</b>           | KY     |     |               | <b>AI Long:</b> | -86.05013  |      |
| <b>AI County:</b>          | Barren |     |               |                 |  |      |

#### Detail

**AAZZ No:** 1 **SI Address Line 1:** 6622 Dripping Springs Road



| Map Key   | Number of Records | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site  | DB   |
|---|-------------------|-----------|------------------|----------------|---|------|
| <b>Site Status:</b> CL03<br><b>Closure Option:</b> Option C Restored<br><b>Closure Date:</b> 4/30/2015<br><b>Regulatory Desc:</b> State Superfund<br><b>SI Desg:</b> Meth Lab<br><b>SI County:</b> Barren<br><b>Acreage:</b><br><b>SI Description:</b> 6622 Dripping Springs Road Meth Lab (Closed 4/30/2015)                           |                   |           |                  |                |   |      |
| <a href="#">12</a>  | 2 of 2            | ENE       | 0.07 / 345.34    | 752.42 / 68    | 6622 Dripping Springs Road<br>Smiths Grove KY                                       | NCDL |
| <b>Date:</b> 2015-02-04<br><b>County:</b> Warren  |                   |           |                  |                |   |      |
| <a href="#">13</a>  | 1 of 1            | NW        | 0.39 / 2,040.96  | 626.44 / -58   | I-65 Tack Oil Spill - Edmonson Co<br>I-65 S Mm 44<br>Rocky Hill (Edmonson) KY 42163 | SHWS |
| <b>Agency Interest ID:</b> 53291<br><b>AI State:</b> KY<br><b>AI County:</b> Edmonson<br><b>AI Lat:</b> 37.064028<br><b>AI Long:</b> -86.101759   |                   |           |                  |                |   |      |
| <b>Detail</b>   |                   |           |                  |                |   |      |
| <b>AAZZ No:</b> 1<br><b>Site Status:</b> CL03<br><b>Closure Option:</b> Option C Restored<br><b>Closure Date:</b> 9/16/2004<br><b>Regulatory Desc:</b> State Superfund<br><b>SI Desg:</b> 124248<br><b>SI County:</b> Edmonson<br><b>Acreage:</b><br><b>SI Description:</b> I-65 EDMONSON COUNTY ORPHAN SPILL (Closed Restored 9/16/04) |                   |           |                  |                |   |      |
| <a href="#">14</a>  | 1 of 1            | NW        | 0.40 / 2,112.26  | 630.45 / -54   | I-65 Petroleum Spill - Edmonson Co<br>I-65 S MM 43.8<br>Smiths Grove KY 42171       | SHWS |
| <b>Agency Interest ID:</b> 34847<br><b>AI State:</b> KY<br><b>AI County:</b> Warren<br><b>AI Lat:</b> 37.06445<br><b>AI Long:</b> -86.100825  |                   |           |                  |                |   |      |
| <b>Detail</b>   |                   |           |                  |                |   |      |
| <b>AAZZ No:</b> 1<br><b>Site Status:</b> CL03<br><b>Closure Option:</b> Option C Restored<br><b>Closure Date:</b> 5/21/2004<br><b>Regulatory Desc:</b> State Superfund<br><b>SI Desg:</b> 125871<br><b>SI County:</b> Barren<br><b>Acreage:</b><br><b>SI Description:</b> WARREN COUNTY I-65 ORPHAN SPILL (Closed: Restored 5-21-2004)  |                   |           |                  |                |   |      |
| <a href="#">15</a>  | 1 of 1            | E         | 0.49 / 2,590.25  | 728.15 / 44    | Bobby Martin Property<br>6100 Dripping Springs Rd<br>Smiths Grove KY 42160          | SHWS |
| <b>Agency Interest ID:</b> 122459<br><b>AI Lat:</b> 37.045144   |                   |           |                  |                |   |      |

| <b>Map Key</b>   | <b>Number of Records</b>   | <b>Direction</b> | <b>Distance (mi/ft)</b> | <b>Elev/Diff (ft)</b>  | <b>Site</b>   | <b>DB</b> |
|--|--|------------------|-------------------------|--|---|-----------|
| <b>AI State:</b><br><b>AI County:</b>  | KY<br>Barren   |                  |                         | <b>AI Long:</b>  | -86.040571  |           |
| <b><u>Detail</u></b>   |  |                  |                         |  |   |           |
| <b>AAZZ No:</b><br><b>Site Status:</b><br><b>Closure Option:</b><br><b>Closure Date:</b><br><b>Regulatory Desc:</b><br><b>SI Desg:</b><br><b>SI County:</b><br><b>Acreage:</b><br><b>SI Description:</b> | 1<br>CL03<br>Option C Restored<br>5/22/2014<br>State Superfund<br>Meth Lab<br>Barren<br><br>6100 Dripping Springs Road Meth Lab (Closed 5/22/2014) |                  |                         | <b>SI Address Line 1:</b><br><b>SI Address Line 2:</b><br><b>SI City:</b><br><b>SI State:</b><br><b>SI Zip:</b><br><b>SI Long:</b><br><b>SI Lat:</b> | 6100 Dripping Springs Road<br><br>Park City<br>KY<br>42160<br>-86.052282<br>37.047734 |           |

|  |  |            |                            |  |   |             |
|--|--|------------|----------------------------|--|---|-------------|
| <a href="#"><u>16</u></a>  | 1 of 1   | <b>ESE</b> | <b>0.54 /<br/>2,850.45</b> | <b>757.78 /<br/>74</b>   | <b>Marlene West Property<br/>635 Oak Hill School Rd<br/>Glasgow KY 42141</b>      | <b>SHWS</b> |
| <b>Agency Interest ID:</b><br><b>AI State:</b><br><b>AI County:</b>  | 108478<br>KY<br>Barren   |            |                            | <b>AI Lat:</b><br><b>AI Long:</b>  | 37.025977<br>-86.03466  |             |
| <b><u>Detail</u></b>   |  |            |                            |  |   |             |
| <b>AAZZ No:</b><br><b>Site Status:</b><br><b>Closure Option:</b><br><b>Closure Date:</b><br><b>Regulatory Desc:</b><br><b>SI Desg:</b><br><b>SI County:</b><br><b>Acreage:</b><br><b>SI Description:</b> | 1<br>CL03<br>Option C Restored<br>6/22/2010<br>State Superfund<br>Meth Lab<br>Barren<br><br>635 Oak Hill School Road Meth Lab (Closed 6/22/2010) |            |                            | <b>SI Address Line 1:</b><br><b>SI Address Line 2:</b><br><b>SI City:</b><br><b>SI State:</b><br><b>SI Zip:</b><br><b>SI Long:</b><br><b>SI Lat:</b> | 635 Oak Hill School Road<br><br>Glasgow<br>KY<br>42141<br>-86.034678<br>37.025987 |             |

# Unplottable Summary

Total: 11 Unplottable sites

| DB           | Company Name/Site Name               | Address   | City  | Zip   | ERIS ID   |
|--------------|--------------------------------------|---|---|-------|-----------|
| RCRA NON GEN | CENTRAL SOYA COMPANY INC             | HIGHWAY 255<br><i>EPA Handler ID:</i> KYD066897273  | PARK CITY KY  | 42160 | 810120960 |
| SPILLS       | Mike Baise Property (AI ID: 133002)  | Get off I-65 at Park City. Take Hwy 255 S. Dripping Springs Road is off that road. Across from 6744 Dripping Springs Road.<br><i>INC ID   Status:</i> 2421347   Env. Closed   | Smiths Grove KY   |       | 859672173 |
| SPILLS       | Integrity Feeds LLC (AI ID: 77303)   | Feed Mill at Hwy 255 in Park City<br><i>INC ID   Status:</i> 2404717   Env. Closed  | Park City KY  |       | 858135406 |
| SPILLS       | Unknown - Orphan diesel fuel spill.  | Ky 255 Between I-65 and Park City. On pull-off on shoulder between abandoned gas station and Park City Truck Stop.<br><i>INC ID   Status:</i> 183469   Response/Investigate   | Park City KY  |       | 827212047 |
| SPILLS       | PHILLIP HIGGINBOTHAM                 | OFF OF FAIRVIEW CHURCH ROAD (HWY 339) - ROCKY HILL COMMUNITY<br><i>INC ID   Status:</i> 2277284   Env. Closed   | Rocky Hill (Edmonson) KY  |       | 827186646 |
| SPILLS       | Mike Baise Property (AI ID: 133002)  | on Dripping Springs Road, Smiths Grove, Ky in Barren County. From BG take I-65 North to Park City exit. Take 255 South and go about 3 miles. Dripping Springs<br><i>INC ID   Status:</i> 2426397   Dispatched Regional Office | Road goes to the left. Across from 6744 Dripping Springs Road., Smiths Grove KY |       | 861616372 |
| SPILLS       | Denise Payne Property (AI ID: 51199) | <i>INC ID   Status:</i> 184449   Env. Closed  | Glasgow KY  |       | 827147719 |
| SPILLS       | Mike Baise Property (AI ID: 119791)  | <i>INC ID   Status:</i> 2380257   Env. Closed   | Smiths Grove KY   |       | 827134153 |
| SPILLS       | unknown                              | <i>INC ID   Status:</i> 2363751   Dispatched Regional Office  | KY  |       | 827126068 |



|        |                                     |  |  |       |           |
|--------|-------------------------------------|--|--|-------|-----------|
| SPILLS | Mike Baise Property (AI ID: 119791) | Driving on Hwy 255 between Park City and Bon Ayer turn onto Dripping Springs Road. The third house trailer you come to will have a small house beside it and | they are burning in the woods behind it., Bon Ayr KY |       | 827174220 |
|        |                                     | INC ID   Status: 2366459   Env. Closed   |  |       |           |
|        |                                     |  |  |       |           |
| UST    | Diamond Caverns Market              | KY 255   | Park City KY   | 42160 | 819763643 |
|        |                                     | AI ID: 66986   |  |       |           |
|        |                                     |  |  |       |           |

# Unplottable Report

**Site:** CENTRAL SOYA COMPANY INC  
HIGHWAY 255 PARK CITY KY 42160

RCRA NON GEN

**EPA Handler ID:** KYD066897273  
**Gen Status Universe:** No Report  
**Contact Name:** ROBERT HENRICKS SR.  
**Contact Address:** P.O. BOX 38 , , PARK CITY , KY, 42160 , US  
**Contact Phone No and Ext:** 219-489-1511  
**Contact Email:**  
**Contact Country:** US  
**County Name:** BARREN  
**EPA Region:** 04  
**Land Type:**  
**Receive Date:** 19800827  
**Location Latitude:**  
**Location Longitude:**

## Violation/Evaluation Summary

**Note:** NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated Sep, 2022.

## Evaluation Details

**Evaluation Start Date:** 19910226  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:**  
**Return to Compliance Date:**  
**Evaluation Agency:** State

## Handler Summary

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

## Hazardous Waste Handler Details

**Sequence No:** 1  
**Receive Date:** 19800827  
**Handler Name:** CENTRAL SOYA COMPANY INC  
**Source Type:** Notification  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

### Waste Code Details

**Hazardous Waste Code:** NONE  
**Waste Code Description:** DESCRIPTION

### Owner/Operator Details

|                             |                      |                   |             |
|-----------------------------|----------------------|-------------------|-------------|
| <b>Owner/Operator Ind:</b>  | Current Owner        | <b>Street No:</b> |             |
| <b>Type:</b>                | Private              | <b>Street 1:</b>  | P.O. BOX 38 |
| <b>Name:</b>                | CENTRAL SOYA COMPANY | <b>Street 2:</b>  |             |
| <b>Date Became Current:</b> |                      | <b>City:</b>      | PARK CITY   |
| <b>Date Ended Current:</b>  |                      | <b>State:</b>     | KY          |
| <b>Phone:</b>               | 219-489-1511         | <b>Country:</b>   |             |
| <b>Source Type:</b>         | Notification         | <b>Zip Code:</b>  | 42160       |

**Site:** **Mike Baise Property (AI ID: 133002)**  
**Get off I-65 at Park City. Take Hwy 255 S. Dripping Springs Road is off that road. Across from 6744 Dripping Springs Road. Smiths Grove KY**

SPILLS

|                                  |  |                            |                               |
|----------------------------------|--|----------------------------|-------------------------------|
| <b>INC ID:</b>                   | 2421347  | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b>       |  | <b>Date:</b>               | 1/23/2017                     |
| <b>Status:</b>                   | Env. Closed  | <b>Lead Invest ID:</b>     | 9476                          |
| <b>Priority:</b>                 | Routine  | <b>Lead Investigator:</b>  | Johnston, Todd                |
| <b>Program Code:</b>             | 01   | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Air  | <b>Recen Cpl Eval Act:</b> |                               |
| <b>Substances:</b>               | PM2.5 (Particulate Matter - 2.5 Microns Or Less):  | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>        | Env. Closed-Mitigated  | <b>Locked Flag:</b>        | Yes                           |
| <b>Incident End Date:</b>        | 3/16/2017  | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |  | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |  | <b>County:</b>             | Barren                        |
| <b>Record Date:</b>              |  | <b>Lat Dec Degrees:</b>    | 37.047098                     |
| <b>First Report Date:</b>        | 1/24/2017 2:07:24 PM   | <b>Long Dec Degrees:</b>   | -86.051464                    |
| <b>Completed:</b>                | Yes  |                            |                               |
| <b>Source:</b>                   | Mike Baise Property (AI ID: 133002)  |                            |                               |
| <b>Incident Type S:</b>          | OPEN BURNING   |                            |                               |
| <b>Incident Desc:</b>            | People directly across from complaintant are burning garbage in a burn barrell. She is not sure what all they are burning but it smells very "toxic" and it is affecting her health! She cannot go outside to sit on her porch or open her windows due to the "toxic" smell. |                            |                               |
| <b>Location Desc:</b>            | Get off I-65 at Park City. Take Hwy 255 S. Dripping Springs Road is off that road. Across from 6744 Dripping Springs Road.   |                            |                               |
| <b>Other Substance Desc:</b>     |  |                            |                               |
| <b>Z Coordinate Method Desc:</b> | Map Grade GPS - Not Differentially Corrected   |                            |                               |

**Site:** **Integrity Feeds LLC (AI ID: 77303)**  
**Feed Mill at Hwy 255 in Park City Park City KY**

SPILLS

|                                  |   |                            |                               |
|----------------------------------|---|----------------------------|-------------------------------|
| <b>INC ID:</b>                   | 2404717   | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b>       |   | <b>Date:</b>               | 11/16/2015                    |
| <b>Status:</b>                   | Env. Closed   | <b>Lead Invest ID:</b>     | 18519                         |
| <b>Priority:</b>                 | Routine   | <b>Lead Investigator:</b>  | Martter, Tina                 |
| <b>Program Code:</b>             | 11  | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Wastewater  | <b>Recen Cpl Eval Act:</b> | AI: 77303 CIV20150001         |
| <b>Substances:</b>               |   | <b>Recent ENF Act:</b>     | AI: 77303 ELW20160001         |
| <b>Closure Type Desc:</b>        |   | <b>Locked Flag:</b>        | Yes                           |
| <b>Incident End Date:</b>        | 12/18/2015  | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |   | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |   | <b>County:</b>             | Barren                        |
| <b>Record Date:</b>              |   | <b>Lat Dec Degrees:</b>    | 37.090278                     |
| <b>First Report Date:</b>        | 11/16/2015  | <b>Long Dec Degrees:</b>   | -86.05                        |
| <b>Completed:</b>                | Yes   |                            |                               |
| <b>Source:</b>                   | Integrity Feeds LLC (AI ID: 77303)                                  |                            |                               |
| <b>Incident Type S:</b>          | STORMWATER  |                            |                               |
| <b>Incident Desc:</b>            | Feed Co dumping feed around back. stinks from the Hwy 255 overpass. |                            |                               |
| <b>Location Desc:</b>            | Feed Mill at Hwy 255 in Park City                                   |                            |                               |
| <b>Other Substance Desc:</b>     | animal feed   |                            |                               |
| <b>Z Coordinate Method Desc:</b> | Unknown   |                            |                               |



**Site:** *Unknown - Orphan diesel fuel spill.  
Ky 255 Between I-65 and Park City. On pull-off on shoulder between abandoned gas station and Park City Truck Stop. Park City KY*

SPILLS

|                                  |  |                            |                  |
|----------------------------------|--|----------------------------|------------------|
| <b>INC ID:</b>                   | 183469   | <b>Notification:</b>       | No               |
| <b>MARS Function Code:</b>       | H172   | <b>Date:</b>               | 7/21/2004        |
| <b>Status:</b>                   | Response/Investigate   | <b>Lead Invest ID:</b>     | 9474             |
| <b>Priority:</b>                 | Routine  | <b>Lead Investigator:</b>  | McGuffey, Robbie |
| <b>Program Code:</b>             | 04   | <b>Flw Up Prior Desc:</b>  | Routine          |
| <b>Program:</b>                  | Env Protection   | <b>Recen Cpl Eval Act:</b> |                  |
| <b>Substances:</b>               | Diesel:  | <b>Recent ENF Act:</b>     |                  |
| <b>Closure Type Desc:</b>        | Env. Closed-Mitigated  | <b>Locked Flag:</b>        | Yes              |
| <b>Incident End Date:</b>        | 7/28/2004  | <b>Waterbody:</b>          |                  |
| <b>Begin Emerg Dt:</b>           | 7/23/2004  | <b>Regional Office:</b>    | Unknown          |
| <b>End Emerg Dt:</b>             | 7/30/2004  | <b>County:</b>             | Barren           |
| <b>Record Date:</b>              |  | <b>Lat Dec Degrees:</b>    | 86.053106        |
| <b>First Report Date:</b>        | 7/21/2004 2:30:00 PM   | <b>Long Dec Degrees:</b>   | -37.095314       |
| <b>Completed:</b>                | Yes  |                            |                  |
| <b>Source:</b>                   | Unknown - Orphan diesel fuel spill.  |                            |                  |
| <b>Incident Type S:</b>          | SOIL CONTAMINATION; TRANSPORTATION ACCIDENT - TRUCK  |                            |                  |
| <b>Incident Desc:</b>            | Truck with leaking saddle tank left spilled diesel on road shoulder then left scene.                               |                            |                  |
| <b>Location Desc:</b>            | Ky 255 Between I-65 and Park City. On pull-off on shoulder between abandoned gas station and Park City Truck Stop. |                            |                  |
| <b>Other Substance Desc:</b>     |  |                            |                  |
| <b>Z Coordinate Method Desc:</b> | Handheld GPS - Not Differentially Corrected  |                            |                  |

**Site:** *PHILLIP HIGGINBOTHAM  
OFF OF FAIRVIEW CHURCH ROAD (HWY 339) - ROCKY HILL COMMUNITY Rocky Hill (Edmonson) KY*

SPILLS

|                                  |  |                            |                               |
|----------------------------------|--|----------------------------|-------------------------------|
| <b>INC ID:</b>                   | 2277284  | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b>       |  | <b>Date:</b>               | 4/21/2008                     |
| <b>Status:</b>                   | Env. Closed  | <b>Lead Invest ID:</b>     |                               |
| <b>Priority:</b>                 | Routine  | <b>Lead Investigator:</b>  |                               |
| <b>Program Code:</b>             | 08   | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Solid Waste  | <b>Recen Cpl Eval Act:</b> |                               |
| <b>Substances:</b>               |  | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>        | Env. Closed-No Action Necessary                              | <b>Locked Flag:</b>        | Yes                           |
| <b>Incident End Date:</b>        |  | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |  | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |  | <b>County:</b>             | Edmonson                      |
| <b>Record Date:</b>              |  | <b>Lat Dec Degrees:</b>    |                               |
| <b>First Report Date:</b>        | 4/21/2008 12:32:49 PM  | <b>Long Dec Degrees:</b>   |                               |
| <b>Completed:</b>                | Yes  |                            |                               |
| <b>Source:</b>                   | PHILLIP HIGGINBOTHAM   |                            |                               |
| <b>Incident Type S:</b>          | OPEN DUMPING   |                            |                               |
| <b>Incident Desc:</b>            | ILLEGAL DUMP   |                            |                               |
| <b>Location Desc:</b>            | OFF OF FAIRVIEW CHURCH ROAD (HWY 339) - ROCKY HILL COMMUNITY |                            |                               |
| <b>Other Substance Desc:</b>     |  |                            |                               |
| <b>Z Coordinate Method Desc:</b> |  |                            |                               |

**Site:** *Mike Baise Property (AI ID: 133002)  
on Dripping Springs Road, Smiths Grove, Ky in Barren County. From BG take I-65 North to Park City exit. Take 255 South and go about 3 miles. Dripping Springs Road goes to the left. Across from 6744 Dripping Springs Road., Smiths Grove KY*

SPILLS

|                            |                            |                            |                               |
|----------------------------|----------------------------|----------------------------|-------------------------------|
| <b>INC ID:</b>             | 2426397                    | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b> |                            | <b>Date:</b>               | 6/5/2017                      |
| <b>Status:</b>             | Dispatched Regional Office | <b>Lead Invest ID:</b>     |                               |
| <b>Priority:</b>           | Routine                    | <b>Lead Investigator:</b>  |                               |
| <b>Program Code:</b>       | 01                         | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>            | Air                        | <b>Recen Cpl Eval Act:</b> |                               |
| <b>Substances:</b>         | Air Emissions:             | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>  |                            | <b>Locked Flag:</b>        | No                            |
| <b>Incident End Date:</b>  |                            | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>     |                            | <b>Regional Office:</b>    | Bowling Green Regional Office |

**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 6/5/2017 1:34:59 PM  
**Completed:** Yes  
**Source:** Mike Baise Property (AI ID: 133002)  
**Incident Type S:** OPEN BURNING  
**Incident Desc:** Complainant states that neighbor across from her residence is burning at night. The smoke is awful and the smell is very toxic. The person burning lives in a trailer and the owner of the trailer lives in a small house beside the trailer. Complainant has called in complaints several times in the past.  
**Location Desc:** on Dripping Springs Road, Smiths Grove, Ky in Barren County. From BG take I-65 North to Park City exit. Take 255 South and go about 3 miles. Dripping Springs Road goes to the left. Across from 6744 Dripping Springs Road.  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Map Grade GPS - Not Differentially Corrected

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**Site:** **Denise Payne Property (AI ID: 51199)**  
**Glasgow KY**

SPILLS

**INC ID:** 184449  
**MARS Function Code:**  
**Status:** Env. Closed  
**Priority:** Routine  
**Program Code:** 01  
**Program:** Air  
**Substances:**  
**Closure Type Desc:** Env. Closed-Managed/Restored  
**Incident End Date:** 8/18/2004  
**Begin Emerg Dt:**  
**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 8/17/2004 1:39:18 PM  
**Completed:** Yes  
**Source:** Denise Payne Property (AI ID: 51199)  
**Incident Type S:** OPEN BURNING  
**Incident Desc:** BURNING OLD ROOF SHINGLES. ASHES ALL OVER EVERYTHING AND THE SMELL IS TERRIBLE.  
**Location Desc:** TAKE I-65 NORTH TO OAKLAND EXIT, GO RIGHT ON 68 & 80 TOWARDS GLASGOW. GO ABOUT 12-13 MILES FROM EXIT. THEY LIVE IN A TAN DOUBLE WIDE MOBILE HOME THAT THEY ARE PUTTING ON A NEW GREEN ROOF. CLOSE TO BISHOP ROAD. AROUND THE 4900 TO 5072 BOWLING GREEN ROAD ADDRESS.  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Handheld GPS - Not Differentially Corrected

**Notification:** No  
**Date:** 8/17/2004  
**Lead Invest ID:** 9657  
**Lead Investigator:** Tabor, Troy  
**Flw Up Prior Desc:** Routine  
**Recen Cpl Eval Act:** AI: 51199 CIV20040001  
**Recent ENF Act:** AI: 51199 ENV20040001  
**Locked Flag:** Yes  
**Waterbody:**  
**Regional Office:** Bowling Green Regional Office  
**County:** Barren  
**Lat Dac Degrees:** 37.015472  
**Long Dec Degrees:** -85.996611

---

**Site:** **Mike Baise Property (AI ID: 119791)**  
**Smiths Grove KY**

SPILLS

**INC ID:** 2380257  
**MARS Function Code:**  
**Status:** Env. Closed  
**Priority:** Routine  
**Program Code:** 01  
**Program:** Air  
**Substances:** PM10 (Particulate Matter - 10 Microns Or Less):  
**Closure Type Desc:** Env. Closed-No Action Necessary  
**Incident End Date:** 6/18/2014  
**Begin Emerg Dt:**  
**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 6/17/2014 8:52:53 AM  
**Completed:** Yes  
**Source:** Mike Baise Property (AI ID: 119791)  
**Incident Type S:** OPEN BURNING  
**Incident Desc:** Open burning of various items. Currently has a stack of lumber and a stack of plastic kids toys ready to burn.  
**Location Desc:** Take 68/80 to Bon Ayre and then turn left on 255. Go probably 2-3 miles on 255 and turn right onto Dripping Springs Road. As you turn there is a nice house on the right on the corner. Go down and you will see a couple of trailers on the right. Go on down and you will see a trailer and a small tan house. If you are standing in front of the house the burn area is on the left.  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Handheld GPS - Not Differentially Corrected

**Notification:** No  
**Date:** 6/17/2014  
**Lead Invest ID:** 9652  
**Lead Investigator:** Blacketer, Bill  
**Flw Up Prior Desc:** Routine  
**Recen Cpl Eval Act:** AI: 119791 CIV20140001  
**Recent ENF Act:**  
**Locked Flag:** Yes  
**Waterbody:**  
**Regional Office:** Bowling Green Regional Office  
**County:** Barren  
**Lat Dac Degrees:** 37.04798  
**Long Dec Degrees:** 86.05208

**Site:** unknown  
KY

SPILLS

|                                  |   |                            |                               |
|----------------------------------|---|----------------------------|-------------------------------|
| <b>INC ID:</b>                   | 2363751   | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b>       |   | <b>Date:</b>               | 6/24/2013                     |
| <b>Status:</b>                   | Dispatched Regional Office  | <b>Lead Invest ID:</b>     |                               |
| <b>Priority:</b>                 | Routine   | <b>Lead Investigator:</b>  |                               |
| <b>Program Code:</b>             | 12  | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Water Quality   | <b>Recen Cpl Eval Act:</b> |                               |
| <b>Substances:</b>               |   | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>        |   | <b>Locked Flag:</b>        | No                            |
| <b>Incident End Date:</b>        |   | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |   | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |   | <b>County:</b>             | Edmonson                      |
| <b>Record Date:</b>              |   | <b>Lat Dec Degrees:</b>    |                               |
| <b>First Report Date:</b>        | 6/24/2013 2:50:32 PM  | <b>Long Dec Degrees:</b>   |                               |
| <b>Completed:</b>                | Yes   |                            |                               |
| <b>Source:</b>                   | unknown   |                            |                               |
| <b>Incident Type S:</b>          | STREAM DEGRADATION  |                            |                               |
| <b>Incident Desc:</b>            | Dead animals are being thrown into natural drainage ditches. Animals are left to rot.   |                            |                               |
| <b>Location Desc:</b>            | The site is in Rocky Hill. Head east on Fairview Church Rd (Hwy 1339) until you cross the overpass for I-65. There will be a gravel road to your left shortly after with mobile homes and houses. The house at the very back of the road is the one dumping dead animals in drainage ditches. |                            |                               |
| <b>Other Substance Desc:</b>     |   |                            |                               |
| <b>Z Coordinate Method Desc:</b> |   |                            |                               |

**Site:** Mike Baise Property (AI ID: 119791)  
Driving on Hwy 255 between Park City and Bon Ayer turn onto Dripping Springs Road. The third house trailer you come to will have a small house beside it and they are burning in the woods behind it., Bon Ayer KY

SPILLS

|                                  |   |                            |                               |
|----------------------------------|---|----------------------------|-------------------------------|
| <b>INC ID:</b>                   | 2366459   | <b>Notification:</b>       | No                            |
| <b>MARS Function Code:</b>       |   | <b>Date:</b>               | 8/19/2013                     |
| <b>Status:</b>                   | Env. Closed   | <b>Lead Invest ID:</b>     | 9476                          |
| <b>Priority:</b>                 | Routine   | <b>Lead Investigator:</b>  | Johnston, Todd                |
| <b>Program Code:</b>             | 01  | <b>Flw Up Prior Desc:</b>  |                               |
| <b>Program:</b>                  | Air   | <b>Recen Cpl Eval Act:</b> | AI: 119791 CIV20130002        |
| <b>Substances:</b>               | PM2.5 (Particulate Matter - 2.5 Microns Or Less):   | <b>Recent ENF Act:</b>     |                               |
| <b>Closure Type Desc:</b>        | Env. Closed-Mitigated   | <b>Locked Flag:</b>        | Yes                           |
| <b>Incident End Date:</b>        | 9/17/2013   | <b>Waterbody:</b>          |                               |
| <b>Begin Emerg Dt:</b>           |   | <b>Regional Office:</b>    | Bowling Green Regional Office |
| <b>End Emerg Dt:</b>             |   | <b>County:</b>             | Barren                        |
| <b>Record Date:</b>              |   | <b>Lat Dec Degrees:</b>    | 37.04806                      |
| <b>First Report Date:</b>        | 8/19/2013 11:14:47 AM   | <b>Long Dec Degrees:</b>   | -86.05207                     |
| <b>Completed:</b>                | Yes   |                            |                               |
| <b>Source:</b>                   | Mike Baise Property (AI ID: 119791)   |                            |                               |
| <b>Incident Type S:</b>          | OPEN BURNING  |                            |                               |
| <b>Incident Desc:</b>            | Complainant believes that materials are being illegally burned in the woods at a property on Dripping Springs Road, in Barren County  |                            |                               |
| <b>Location Desc:</b>            | Driving on Hwy 255 between Park City and Bon Ayer turn onto Dripping Springs Road. The third house trailer you come to will have a small house beside it and they are burning in the woods behind it. |                            |                               |
| <b>Other Substance Desc:</b>     |   |                            |                               |
| <b>Z Coordinate Method Desc:</b> | Map Grade GPS - Not Differentially Corrected  |                            |                               |

**Site:** Diamond Caverns Market  
KY 255 Park City KY 42160

UST

|                    |   |                            |           |
|--------------------|---|----------------------------|-----------|
| <b>AI ID:</b>      | 66986   | <b>County:</b>             | Edmonson  |
| <b>Int Doc ID:</b> | 0   | <b>Mail Addr Municip:</b>  | Park City |
| <b>Latitude:</b>   |   | <b>Mailing Addr State:</b> | KY        |
| <b>Longitude:</b>  |   | <b>Mailing Addr Zip:</b>   | 42160     |
| <b>AI Type:</b>    | RETAIL- Retail Trade, Gasoline Stations (447) |                            |           |



### Underground Storage Tanks

**Subject Item ID:** 1  
**Tank Pit No:**  
**Tank Status:** TR8 Removed Prior to 1988  
**Temp Close Date:**  
**Site Seq ID:** 6973031  
**Install Date:** 1/1/1971 12:00:00 AM  
**Lined Date:**  
**Tank Material:** SST Single Wall Steel  
**Tank Inert Material:**  
**Tank Release Detect:** NON None  
**Tank Spill Prevent:** UNK Unknown  
**Last Cont Prod Dt:**  
**Closed in Place Dt:**  
**Removal Date:** 12/22/1988 12:00:00 AM  
**Service Change Dt:**  
**Last Tank Test Dt:**  
**Last CP Test Date:**  
**Added to Flex Date:**  
**Added to Piping Dt:**  
**Added to Tank Date:**  
**Piping Install Dt:**  
**Tank Manufctr:**  
**Pipe Manufctr:**

**Owner Name:** Browning Oil Co  
**Owner Address:** 2140 Old Louisville Rd  
**Owner Address 2:**  
**Owner Address 3:**  
**Owner City:** Bowling Green  
**Owner State:** KY  
**Owner Zip:** 421019145  
**Owner Phone:** 270-782-2454  
**Subj Item Cat Code:** STOR  
**Last Pipe Test Dt:**  
**Lining Insp Date:**  
**Tank Ext Corr Protect:** UNK Unknown  
**Tank Int Corr Protect:** UNK Unknown  
**Tank Overfill Prevent:** UNK Unknown  
**Pipe Material Desc:** SST Single Wall Steel  
**Pipe Ext Corr Protect:** UNK Unknown  
**Pipe Type Desc:** UNK Unknown  
**Pipe Rel Detect PRP:** UNK Unknown  
**Pipe Rel Detect SUC:** UNK Unknown  
**Pipe Leak Detect:** N/A Not Applicable

### Tank Compartment Information

**Compartment No:** 1  
**Capacity MSR:** 4000

**Tank Substance Cd:** GAS  
**Tank Subst Desc:** GAS Gasoline

### Underground Storage Tanks

**Subject Item ID:** 2  
**Tank Pit No:**  
**Tank Status:** TR8 Removed Prior to 1988  
**Temp Close Date:**  
**Site Seq ID:** 6973031  
**Install Date:** 1/1/1971 12:00:00 AM  
**Lined Date:**  
**Tank Material:** SST Single Wall Steel  
**Tank Inert Material:**  
**Tank Release Detect:** NON None  
**Tank Spill Prevent:** UNK Unknown  
**Last Cont Prod Dt:**  
**Closed in Place Dt:**  
**Removal Date:** 12/22/1988 12:00:00 AM  
**Service Change Dt:**  
**Last Tank Test Dt:**  
**Last CP Test Date:**  
**Added to Flex Date:**  
**Added to Piping Dt:**  
**Added to Tank Date:**  
**Piping Install Dt:**  
**Tank Manufctr:**  
**Pipe Manufctr:**

**Owner Name:** Browning Oil Co  
**Owner Address:** 2140 Old Louisville Rd  
**Owner Address 2:**  
**Owner Address 3:**  
**Owner City:** Bowling Green  
**Owner State:** KY  
**Owner Zip:** 421019145  
**Owner Phone:** 270-782-2454  
**Subj Item Cat Code:** STOR  
**Last Pipe Test Dt:**  
**Lining Insp Date:**  
**Tank Ext Corr Protect:** UNK Unknown  
**Tank Int Corr Protect:** UNK Unknown  
**Tank Overfill Prevent:** UNK Unknown  
**Pipe Material Desc:** SST Single Wall Steel  
**Pipe Ext Corr Protect:** UNK Unknown  
**Pipe Type Desc:** UNK Unknown  
**Pipe Rel Detect PRP:** UNK Unknown  
**Pipe Rel Detect SUC:** UNK Unknown  
**Pipe Leak Detect:** N/A Not Applicable

### Tank Compartment Information

**Compartment No:** 1  
**Capacity MSR:** 3000

**Tank Substance Cd:** GAS  
**Tank Subst Desc:** GAS Gasoline

### Underground Storage Tanks

**Subject Item ID:** 3  
**Tank Pit No:**  
**Tank Status:** TR8 Removed Prior to 1988  
**Temp Close Date:**

**Owner Name:** Browning Oil Co  
**Owner Address:** 2140 Old Louisville Rd  
**Owner Address 2:**  
**Owner Address 3:**

**Site Seq ID:** 6973031  
**Install Date:** 1/1/1971 12:00:00 AM  
**Lined Date:**  
**Tank Material:** SST Single Wall Steel  
**Tank Inert Material:**  
**Tank Release Detect:** NON None  
**Tank Spill Prevent:** UNK Unknown  
**Last Cont Prod Dt:**  
**Closed in Place Dt:**  
**Removal Date:** 12/22/1988 12:00:00 AM  
**Service Change Dt:**  
**Last Tank Test Dt:**  
**Last CP Test Date:**  
**Added to Flex Date:**  
**Added to Piping Dt:**  
**Added to Tank Date:**  
**Piping Install Dt:**  
**Tank Manufctr:**  
**Pipe Manufctr:**

**Owner City:** Bowling Green  
**Owner State:** KY  
**Owner Zip:** 421019145  
**Owner Phone:** 270-782-2454  
**Subj Item Cat Code:** STOR  
**Last Pipe Test Dt:**  
**Lining Insp Date:**  
**Tank Ext Corr Protect:** UNK Unknown  
**Tank Int Corr Protect:** UNK Unknown  
**Tank Overfill Prevent:** UNK Unknown  
**Pipe Material Desc:** SST Single Wall Steel  
**Pipe Ext Corr Protect:** UNK Unknown  
**Pipe Type Desc:** UNK Unknown  
**Pipe Rel Detect PRP:** UNK Unknown  
**Pipe Rel Detect SUC:** UNK Unknown  
**Pipe Leak Detect:** N/A Not Applicable

**Tank Compartment Information**

**Compartment No:** 1  
**Capacity MSR:** 1120

**Tank Substance Cd:** GAS  
**Tank Subst Desc:** GAS Gasoline

## Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:*

*"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."*

### Standard Environmental Record Sources

#### Federal

##### Formerly Utilized Sites Remedial Action Program:

DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

**Government Publication Date: Mar 4, 2017**

##### National Priority List:

NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

##### National Priority List - Proposed:

PROPOSED NPL

Sites proposed - by the EPA, the state agency, or concerned citizens - for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

##### Deleted NPL:

DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

**SEMS List 8R Active Site Inventory:**[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

**Government Publication Date:** Sep 28, 2022

**Inventory of Open Dumps, June 1985:**[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

**Government Publication Date:** Jun 1985

**SEMS List 8R Archive Sites:**[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

**Government Publication Date:** Sep 28, 2022

**Comprehensive Environmental Response, Compensation and Liability Information System -**[CERCLIS](#)**CERCLIS:**

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

**Government Publication Date:** Oct 25, 2013

**EPA Report on the Status of Open Dumps on Indian Lands:**[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

**Government Publication Date:** Dec 31, 1998

**CERCLIS - No Further Remedial Action Planned:**[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**Government Publication Date:** Oct 25, 2013

**CERCLIS Liens:**[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

**Government Publication Date:** Jan 30, 2014

**RCRA CORRACTS-Corrective Action:**[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

**Government Publication Date:** Sep 5, 2022



**RCRA non-CORRACTS TSD Facilities:**[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

**Government Publication Date: Sep 5, 2022**

**RCRA Generator List:**[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

**Government Publication Date: Sep 5, 2022**

**RCRA Small Quantity Generators List:**[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

**Government Publication Date: Sep 5, 2022**

**RCRA Very Small Quantity Generators List:**[RCRA VSQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

**Government Publication Date: Sep 5, 2022**

**RCRA Non-Generators:**[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

**Government Publication Date: Sep 5, 2022**

**RCRA Sites with Controls:**[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

**Government Publication Date: Sep 5, 2022**

**Federal Engineering Controls-ECs:**[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date: Oct 27, 2022**

**Federal Institutional Controls- ICs:**

FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date:** Oct 27, 2022

**Land Use Control Information System:**

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

**Government Publication Date:** Sep 1, 2006

**Institutional Control Boundaries at NPL sites:**

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

**Government Publication Date:** Jul 26, 2022

**Emergency Response Notification System:**

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date:** 1982-1986

**Emergency Response Notification System:**

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date:** 1987-1989

**Emergency Response Notification System:**

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

**Government Publication Date:** Aug 28, 2022

**The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:**

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

**Government Publication Date:** Sep 13, 2022

**FEMA Underground Storage Tank Listing:**

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

**Government Publication Date:** Dec 31, 2017

**Facility Response Plan:**

FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date:** Dec 31, 2021

**Delisted Facility Response Plans:**

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date:** Dec 31, 2021

**Historical Gas Stations:**

HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

**Government Publication Date:** Jul 1, 1930

**Petroleum Refineries:**

REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

**Government Publication Date:** Aug 30, 2022

**Petroleum Product and Crude Oil Rail Terminals:**

BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

**Government Publication Date:** Jun 29, 2022

**LIEN on Property:**

SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

**Government Publication Date:** Sep 28, 2022

**Superfund Decision Documents:**

SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

**Government Publication Date:** Sep 28, 2022

**State****Brownfield Redevelopment Program:**

BROWNFIELDS

A list of sites in the Brownfield Redevelopment Program. This list is made available by the Kentucky Energy and Environment Cabinet (EEC).

**Government Publication Date:** Nov 17, 2022

**State Leads Priority List:**

SHWS

State Leads Priority List that contains a listing of State Hazardous Waste sites. This list is maintained by The Kentucky Department of Environmental Protection (DEP). This database is state equivalent CERCLIS.

**Government Publication Date:** Nov 22, 2022

**Delisted State Leads Priority List:**

DELISTED SHWS

This database contains a list of closed State Hazardous Waste sites that were removed from the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date:** Nov 22, 2022

**Solid Waste Facilities and Landfills:**

SWF/LF

A list of Solid Waste Facilities (SWF) and Landfills (LF) made available by the Kentucky Department of Environmental Protection (DEP). This list includes registered contained landfills, construction/demolition debris landfills, residual landfills and special waste landfills.

**Government Publication Date:** Aug 25, 2022

**Historic Landfills:**

HIST LANDFILL

According to the Kentucky Department of Environmental Protection (DEP), before solid waste management was regulated in Kentucky, most towns or cities had a common location where household waste and a vast array of other materials were disposed. These "old town dumps" were the de facto landfill for the area, and were rarely operated in a manner consistent with current standards. In most cases they were not properly capped to prevent migration of contaminated leachate and other pollutants. Division records indicate more than 600 of these sites are scattered across the state. The DEP's Solid Waste Branch Closure Section addresses proper closure and remediation of these historic sites. Closure/remediation work is presently ongoing at several sites across the state.

**Government Publication Date:** Mar 24, 2014

**SB193 Branch Site Inventory List:**

SB193

This list is comprised of sites that have performed permanent closure activities at regulated underground storage tank facilities and have known soil and/or groundwater contamination. Historical listing made available by the underground storage tank branch in the Department of Environmental Protection (DEP) of Kentucky State.

**Government Publication Date:** Apr 30, 1985

**Ranking List for UST Facilities:**

PSTEAF

A list of UST facilities under site investigation which are eligible to receive reimbursement from Financial Responsibility Account (FRA) and Petroleum Storage Tank Account (PSTA) of the Petroleum Storage Tank Environmental Assurance Fund (PSTEAF). Reimbursements from the FRA and PSTA are determined by this ranking system. This list is maintained by the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date:** Aug 1, 2022

**Underground Storage Tanks:**

UST

A list of registered Underground Storage Tanks (USTs) maintained by the Underground Storage Tank Branch in the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date:** Sep 15, 2022

**Delisted Storage Tank:**

DELISTED STORAGE TANK

This database contains a list of closed storage tank sites that were removed from the Underground Storage Tank Branch in the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date:** Sep 15, 2022

**Sites with Engineering Controls:**

ENG

This list of sites with engineering controls in place is made available by the Kentucky Department of Environmental Protection (DEP). The site listing is compiled from applicable DEP FOIA files, which includes sites from the Institutional Controls and State Lead listings with engineering controls in place.

**Government Publication Date:** Nov 22, 2022

**Sites with Institutional Controls:**

INST

Sites with institutional controls in place, provided by the Kentucky Department of Environmental Protection (DEP). Institutional controls are put in place to regulate activities on the property, such as a requirement that the property never be used for residential development or to prohibit the use of groundwater from below the property.

**Government Publication Date:** Nov 22, 2022

**Voluntary Cleanup Program Sites:**

VCP

The Kentucky Department of Environmental Protection (DEP) maintains an inventory of sites that are in the Voluntary Cleanup Program.

**Government Publication Date:** Apr 13, 2022

**Kentucky Brownfield Inventory:**

BROWNFIELD INV



Kentucky Brownfield Inventory consists primarily of properties that are receiving, or have received, assessments and/or cleanups under federal brownfield funding to states or local government entities. This list is managed by the Kentucky Department for Environmental Protection (DEP).

**Government Publication Date: Oct 21, 2022**

## **Tribal**

### **Leaking Underground Storage Tanks (LUSTs) on Indian Lands:**

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 4, which includes Kentucky. There are no LUST records in Kentucky at this time.

**Government Publication Date: Oct 14, 2017**

### **Underground Storage Tanks (USTs) on Indian Lands:**

INDIAN UST

USTs on Tribal/Indian Lands in Region 4, which includes Kentucky. There are no UST records in Kentucky at this time.

**Government Publication Date: Oct 14, 2017**

### **Delisted Tribal Leaking Storage Tanks:**

DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

**Government Publication Date: Apr 9, 2022**

### **Delisted Tribal Underground Storage Tanks:**

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

**Government Publication Date: Apr 20, 2022**

## **County**

**No County standard environmental record sources available for this State.**

## **Additional Environmental Record Sources**

### **Federal**

#### **Facility Registry Service/Facility Index:**

FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

**Government Publication Date: Nov 2, 2020**

#### **Toxics Release Inventory (TRI) Program:**

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

**Government Publication Date: Aug 24, 2021**

#### **Perfluorinated Alkyl Substances (PFAS) Releases:**

PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

**Government Publication Date: Aug 24, 2021**

#### **PFOA/PFOS Contaminated Sites:**

PFAS NPL

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

**Government Publication Date: Oct 4, 2022**

**Perfluorinated Alkyl Substances (PFAS) Water Quality:**

PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

**Government Publication Date:** Jul 20, 2020

**SSEHRI PFAS Contamination Sites:**

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations <https://pfasproject.com/pfas-contamination-site-tracker/>

**Government Publication Date:** Dec 12, 2019

**National Response Center PFAS Spills:**

ERNS PFAS

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

**Government Publication Date:** Feb 23, 2022

**Hazardous Materials Information Reporting System:**

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

**Government Publication Date:** Sep 1, 2020

**National Clandestine Drug Labs:**

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

**Government Publication Date:** Aug 30, 2022

**Toxic Substances Control Act:**

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

**Government Publication Date:** Apr 11, 2019

**Hist TSCA:**

HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

**Government Publication Date:** Dec 31, 2006

**FTTS Administrative Case Listing:**

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Government Publication Date: Jan 19, 2007**

**FTTS Inspection Case Listing:**

**FTTS INSP**

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Government Publication Date: Jan 19, 2007**

**Potentially Responsible Parties List:**

**PRP**

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

**Government Publication Date: Sep 28, 2022**

**State Coalition for Remediation of Drycleaners Listing:**

**SCRD DRYCLEANER**

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRd no longer maintains this data, refer to applicable state source data where available.

**Government Publication Date: Nov 08, 2017**

**Integrated Compliance Information System (ICIS):**

**ICIS**

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

**Government Publication Date: Oct 15, 2022**

**Drycleaner Facilities:**

**FED DRYCLEANERS**

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

**Government Publication Date: Jun 25, 2022**

**Delisted Drycleaner Facilities:**

**DELISTED FED DRY**

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

**Government Publication Date: Jun 25, 2022**

**Formerly Used Defense Sites:**

**FUDS**

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

**Government Publication Date: Jul 12, 2022**

**Former Military Nike Missile Sites:**

**FORMER NIKE**

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

**Government Publication Date: Dec 2, 1984**

**PHMSA Pipeline Safety Flagged Incidents:**

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

**Government Publication Date:** Jul 7, 2020

**Material Licensing Tracking System (MLTS):**

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

**Government Publication Date:** May 11, 2021

**Historic Material Licensing Tracking System (MLTS) sites:**

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

**Government Publication Date:** Jan 31, 2010

**Mines Master Index File:**

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

**Government Publication Date:** Aug 3, 2022

**Surface Mining Control and Reclamation Act Sites:**

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

**Government Publication Date:** Aug 18, 2022

**Mineral Resource Data System:**

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

**Government Publication Date:** Mar 15, 2016

**DOE Legacy Management Sites:**

URANIUM

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

**Government Publication Date:** Jun 21, 2022

**Alternative Fueling Stations:**

ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG) fuel type locations.



**Superfunds Consent Decrees:**

CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Sep 15, 2022

**Air Facility System:**

AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

**Registered Pesticide Establishments:**

SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

**Polychlorinated Biphenyl (PCB) Transformers:**

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

**Polychlorinated Biphenyl (PCB) Notifiers:**

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jul 28, 2022

**State**

**Incidents:**

SPILLS

A list of incidents reported to the Kentucky Department of Environmental Protection (Kentucky DEP) where hazardous materials may have been spilled and/or released.

Government Publication Date: Jul 29, 2022

**Clandestine Drug Laboratory Locations:**

CDL

The Kentucky Department of Environmental Protection's (DEP) Division of Waste Management Superfund Branch maintains this list of clandestine methamphetamine laboratory locations.

Government Publication Date: Nov 16, 2022

**Permitted Mine Boundaries:**

MINE

Boundaries of approved permitted mines for surface and underground mining in Kentucky. This includes western and eastern coal fields; active, inactive, and released permits. This data set is made available by the Division of Mine Permits, Kentucky Department for Natural Resources.

Government Publication Date: Oct 20, 2021

**Tribal**

**No Tribal additional environmental record sources available for this State.**

**County**

***No County additional environmental record sources available for this State.***

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

# **Appendix D**

## **User Questionnaires**





# **Appendix E**

## **Physical Setting Report**





## Property Information

|                   |  |
|-------------------|--|
| Order Number:     | 22121200544p                                 |
| Date Completed:   | December 13, 2022                            |
| Project Number:   | 237801898                                    |
| Project Property: | Wood Duck Phase I ESA<br>N/A Smiths Grove KY |
| Coordinates:      |  |
| Latitude:         | 37.03923949                                  |
| Longitude:        | -86.07417753                                 |
| UTM Northing:     | 4099626.06694 Meters                         |
| UTM Easting:      | 582334.691359 Meters                         |
| UTM Zone:         | UTM Zone 16S                                 |
| Elevation:        | 684.06 ft                                    |
| Slope Direction:  | SSE  |

|                                   |     |
|-----------------------------------|-----|
| Topographic Information.....      | 2   |
| Hydrologic Information.....       | 22  |
| Geologic Information.....         | 42  |
| Soil Information.....             | 52  |
| Wells and Additional Sources..... | 98  |
| Summary.....                      | 108 |
| Detail Report.....                | 111 |
| Radon Information.....            | 161 |
| Appendix.....                     | 162 |
| Liability Notice.....             | 164 |

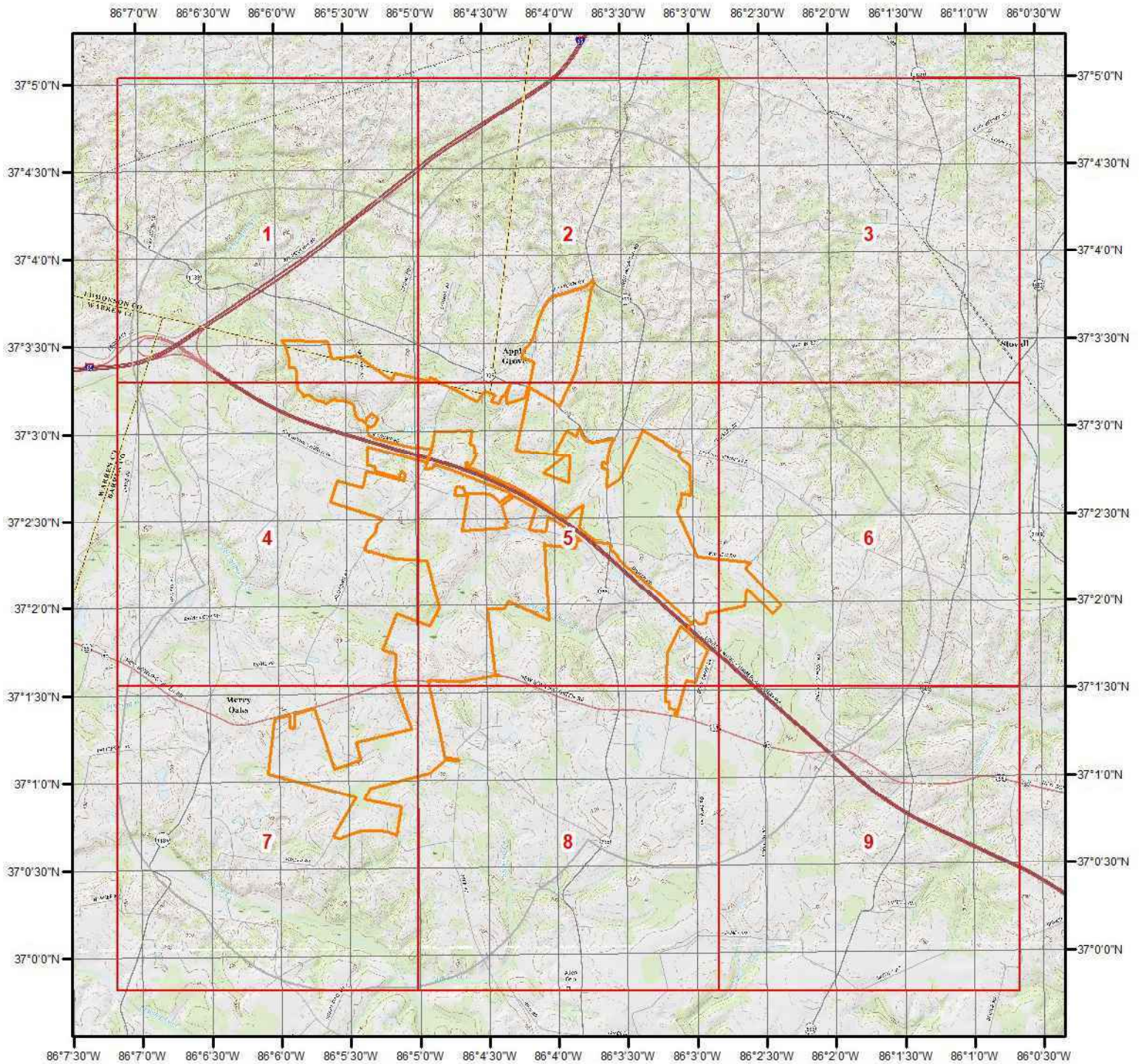
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

### Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

## Topographic Information



**Current USGS Topo (2016)**

0 0.2 0.4 0.8 1.2 1.6 2 2.4 Miles



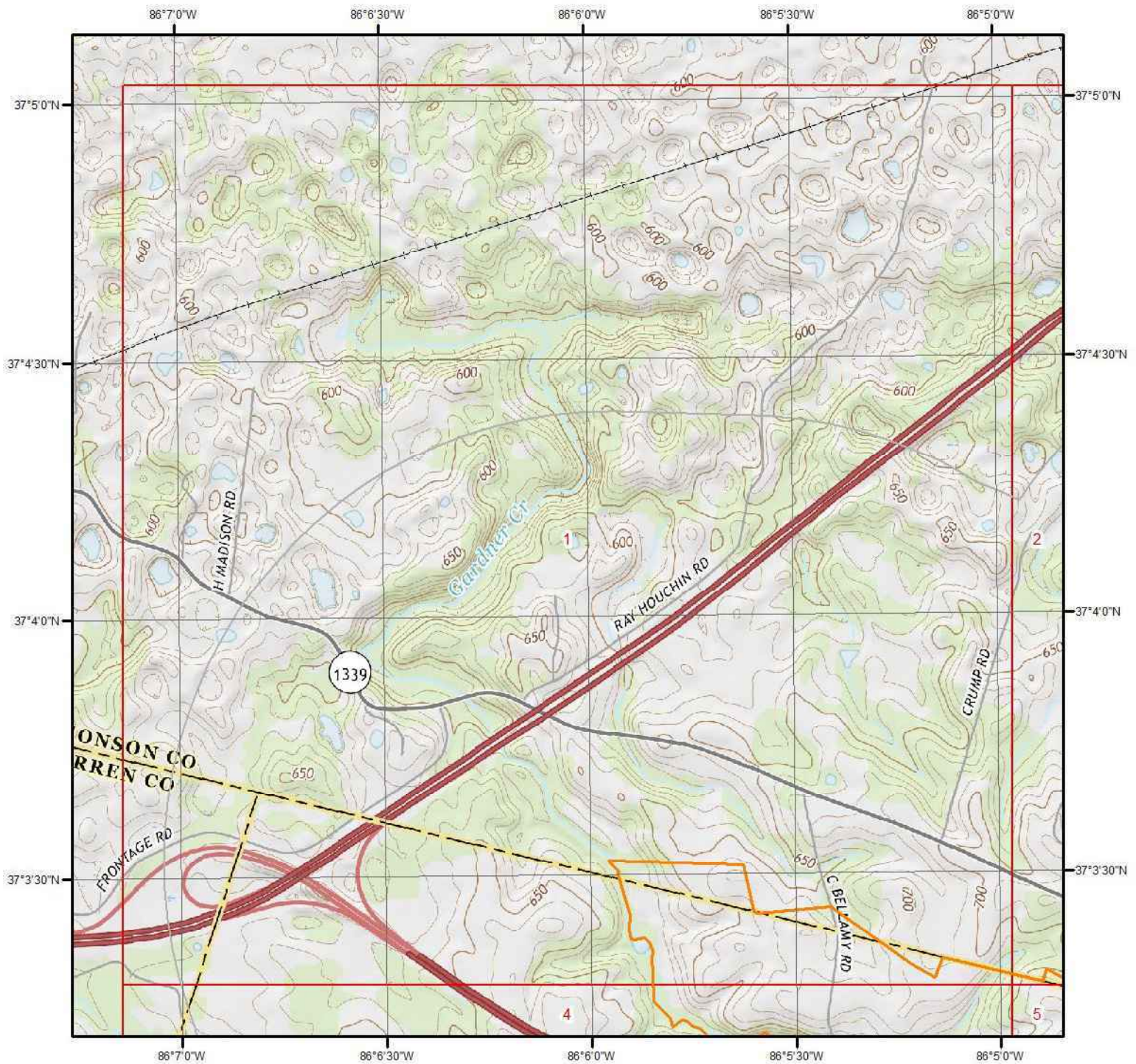
**Quadrangle(s): Glasgow North, KY; Glasgow South, KY; Horse Cave, KY;  
Lucas, KY; Mammoth Cave, KY; Meador, KY; Park City, KY; Rhoda, KY;**



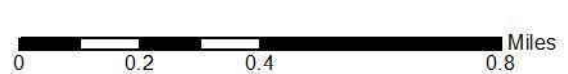
Source: USGS 7.5 Minute Topographic Map



# Topographic Information



Current USGS Topo - Page 1



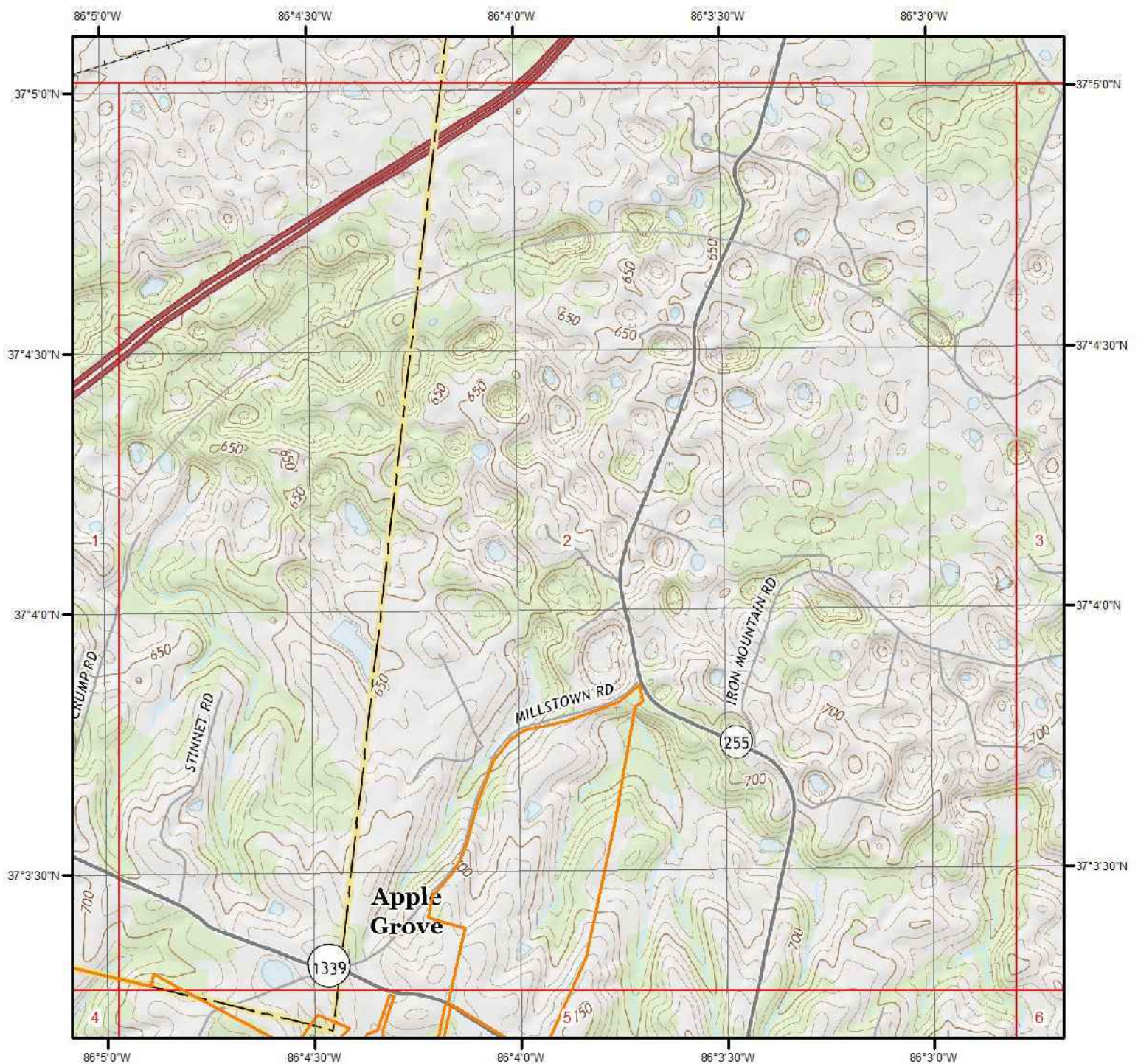
Quadrangle(s): Park City, KY

Source: USGS 7.5 Minute Topographic Map





## Topographic Information



## Current USGS Topo - Page 2



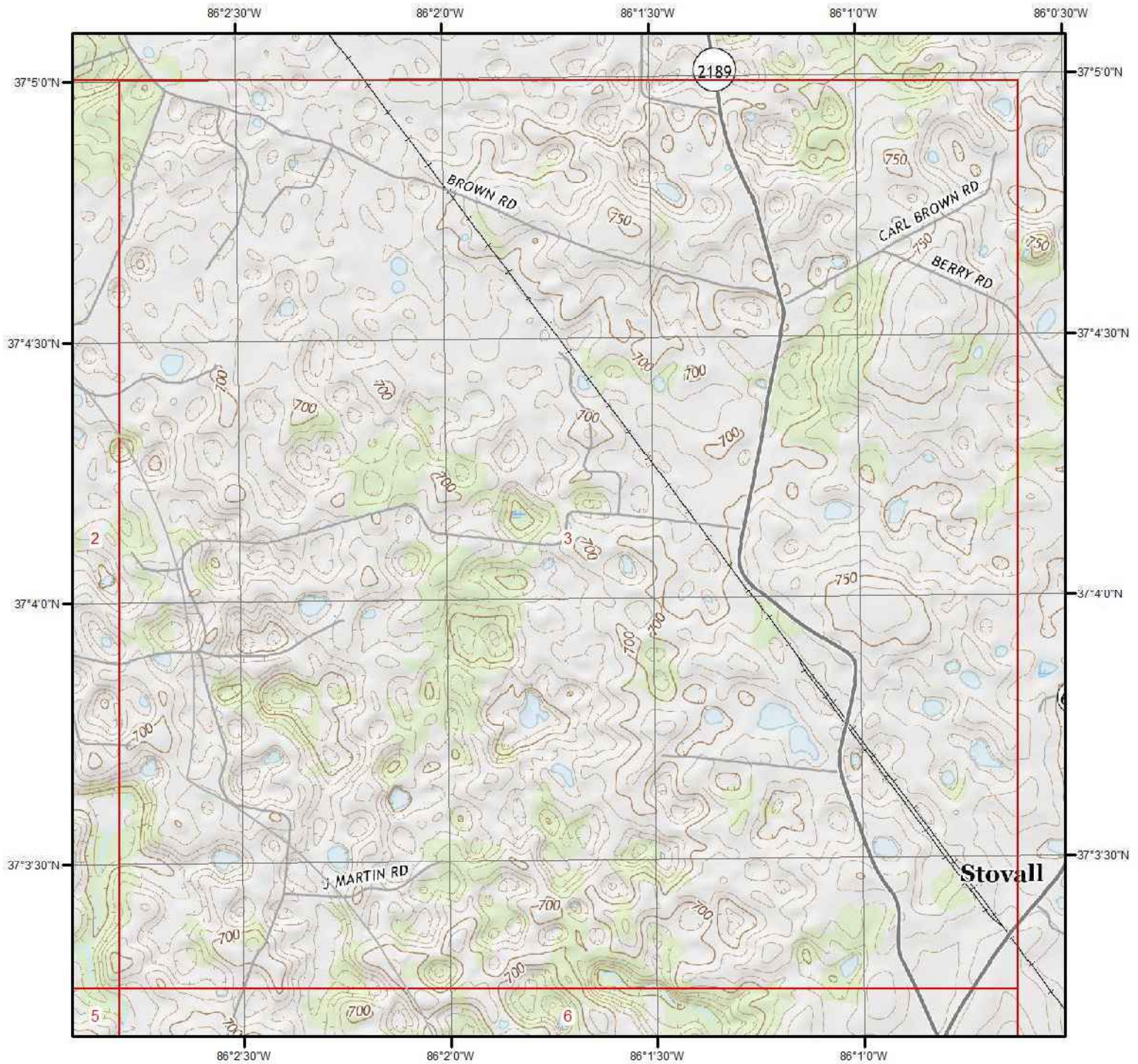
**Quadrangle(s):** Park City, KY

Source: USGS 7.5 Minute Topographic Map





## Topographic Information



**Current USGS Topo - Page 3**



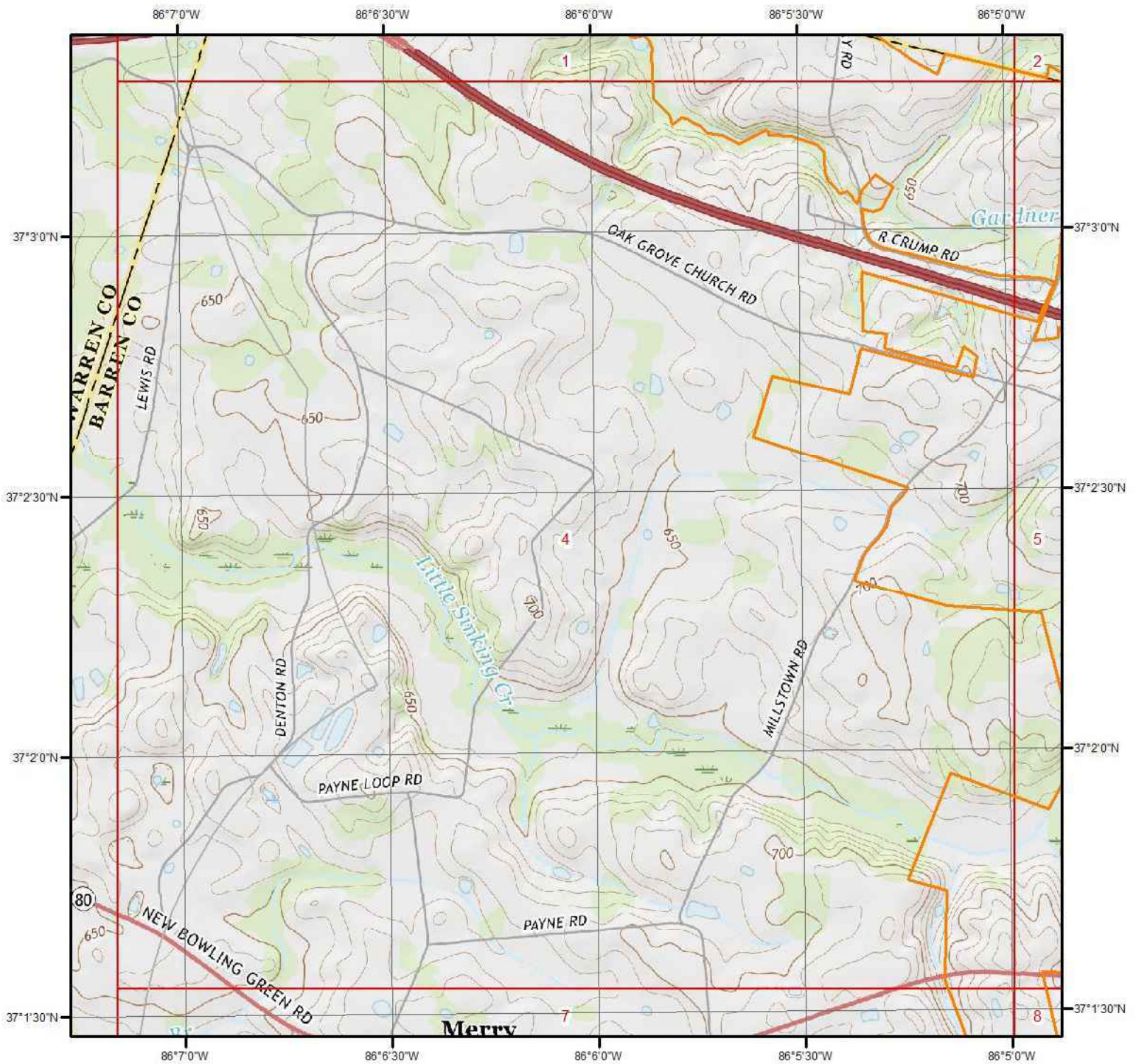
**Quadrangle(s): Park City, KY**

Source: USGS 7.5 Minute Topographic Map





# Topographic Information



Current USGS Topo - Page 4

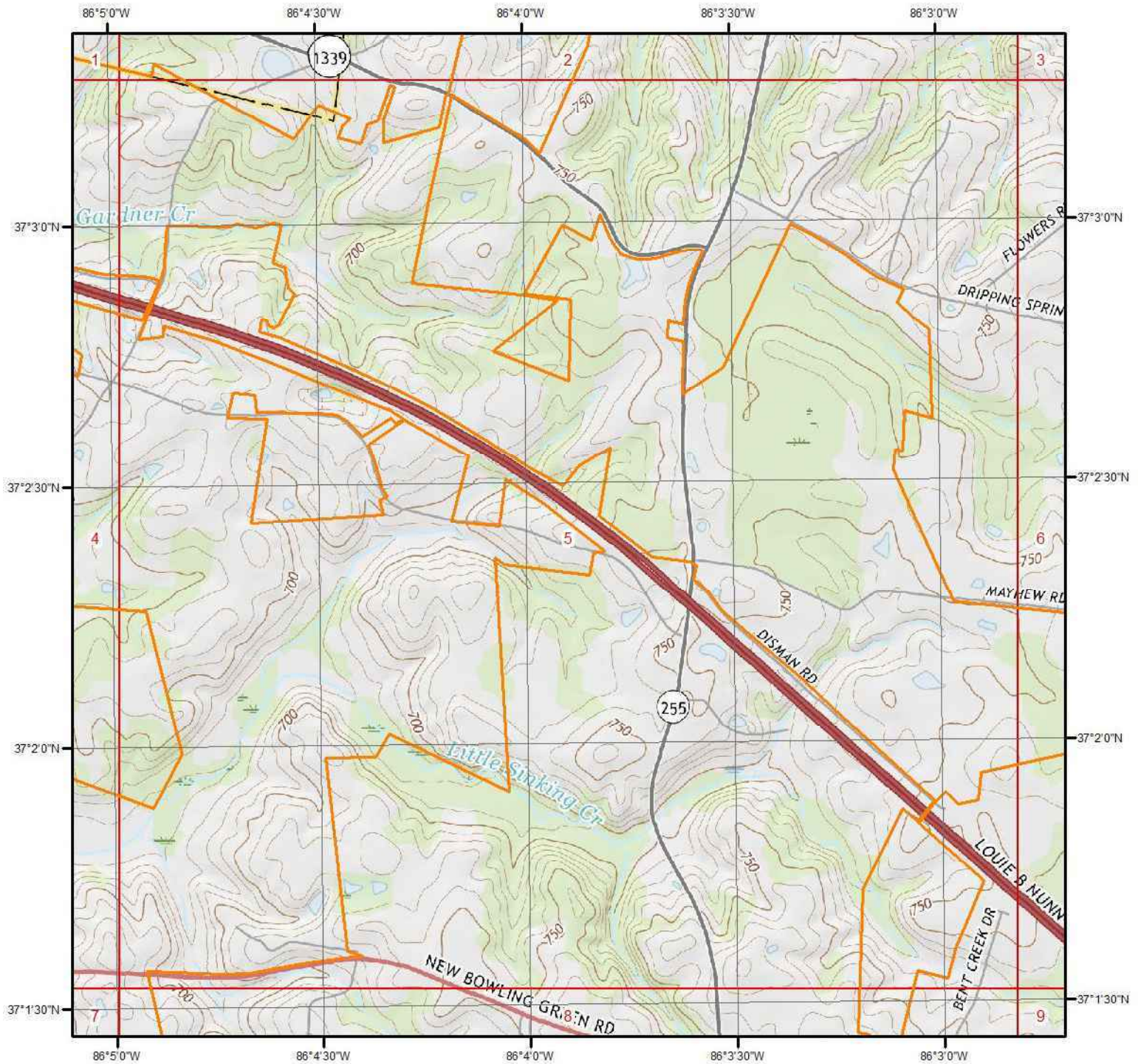
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Source: USGS 7.5 Minute Topographic Map





## Topographic Information



**Current USGS Topo - Page 5**



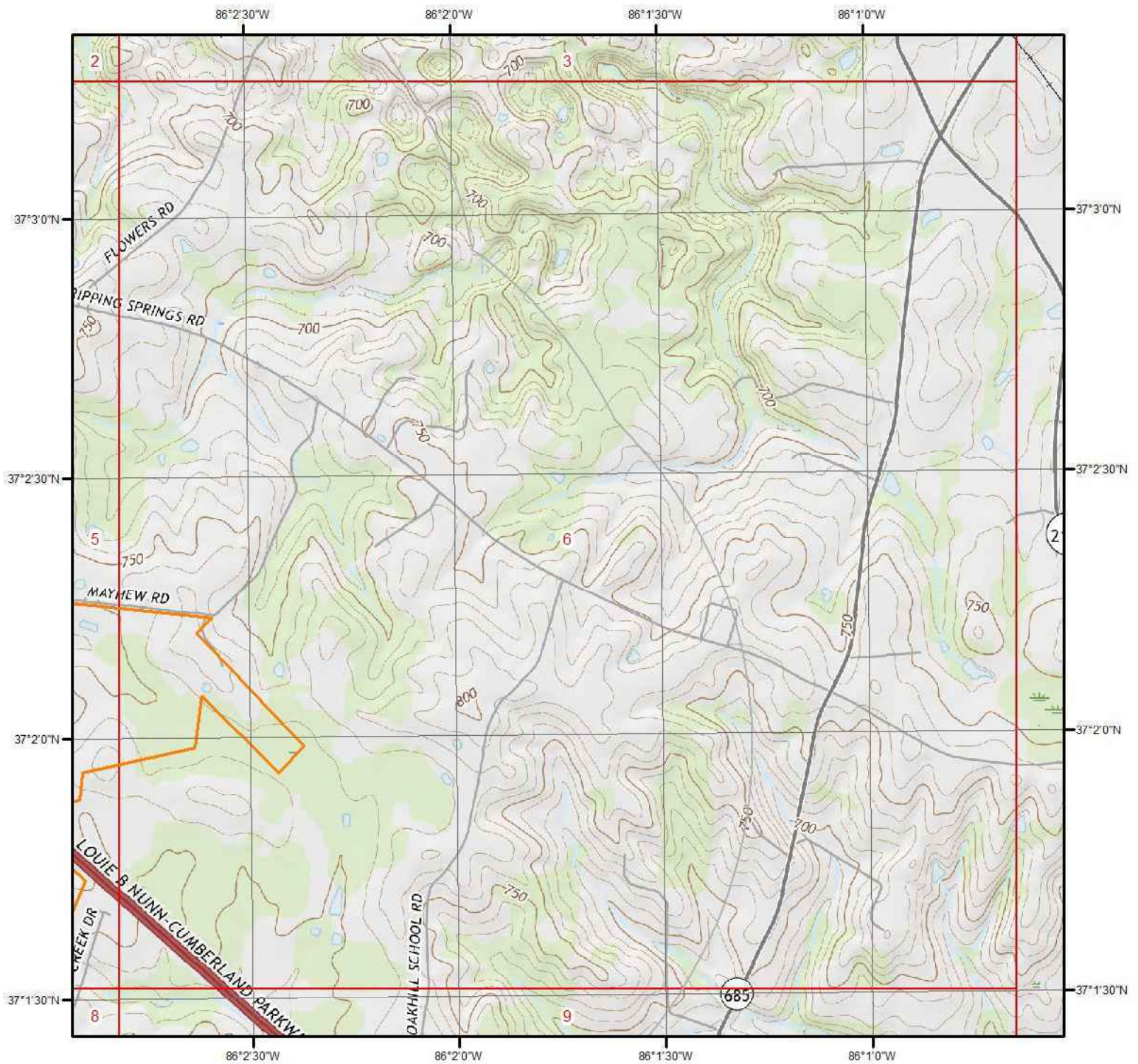
**Quadrangle(s): Park City, KY**

Source: USGS 7.5 Minute Topographic Map





## Topographic Information



**Current USGS Topo - Page 6**

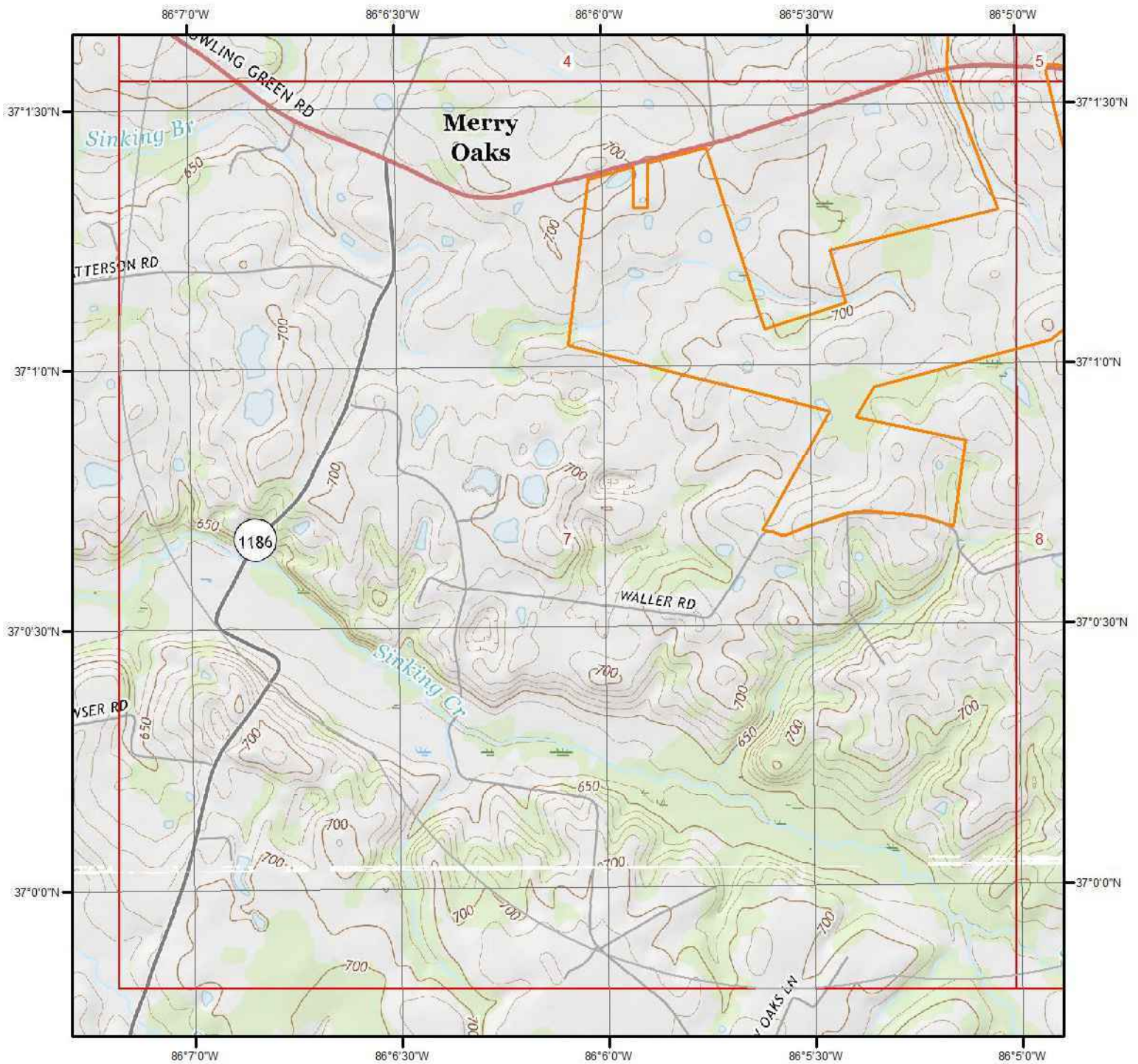
**Quadrangle(s): Park City, KY**

Source: USGS 7.5 Minute Topographic Map





## Topographic Information



**Current USGS Topo - Page 7**



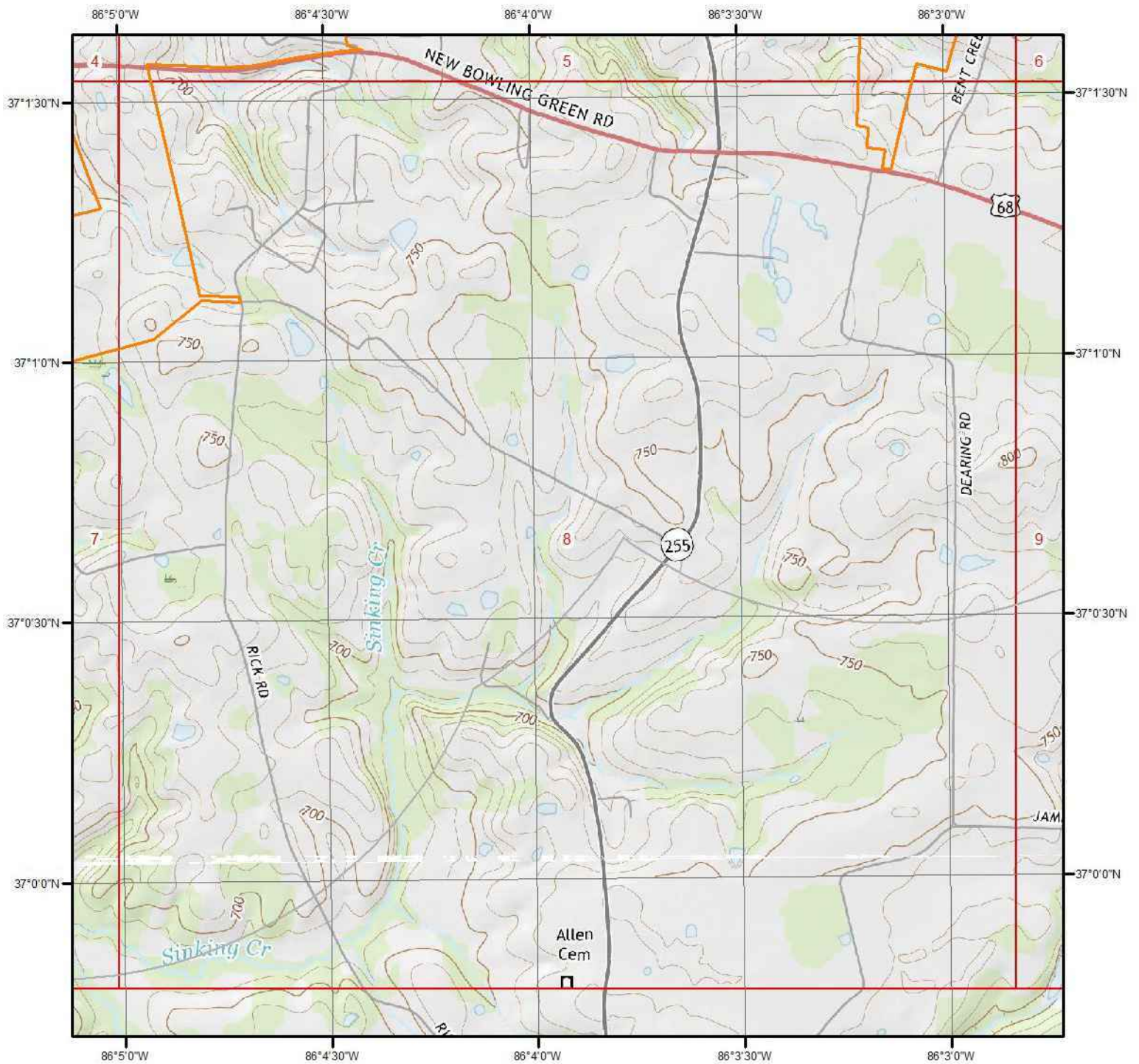
**Quadrangle(s): Lucas, KY; Park City, KY**

Source: USGS 7.5 Minute Topographic Map

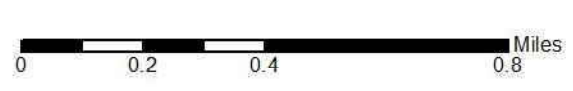




## Topographic Information



**Current USGS Topo - Page 8**



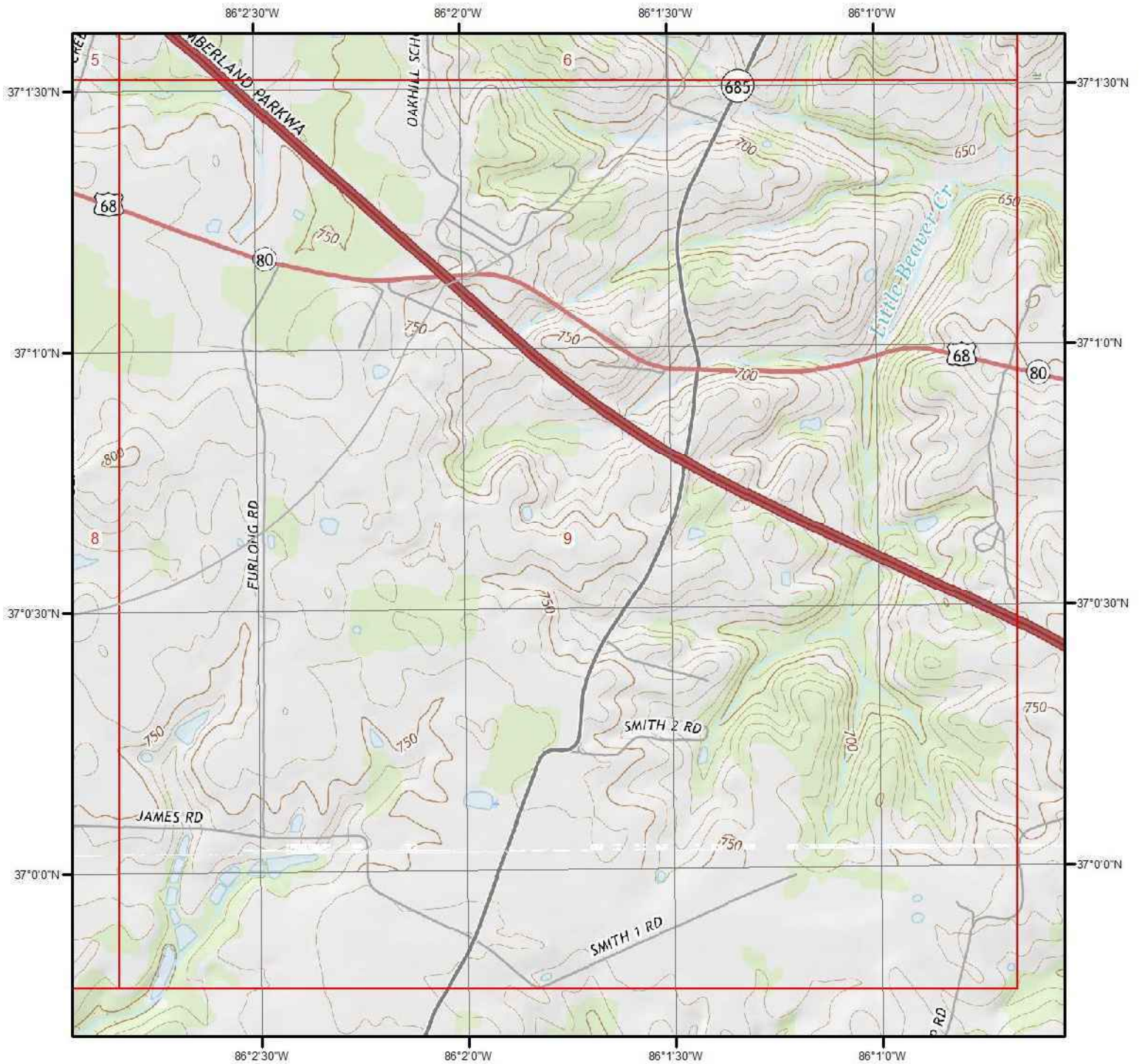
**Quadrangle(s): Lucas, KY; Park City, KY**

Source: USGS 7.5 Minute Topographic Map





## Topographic Information



**Current USGS Topo - Page 9**



**Quadrangle(s): Lucas, KY; Park City, KY**

Source: USGS 7.5 Minute Topographic Map



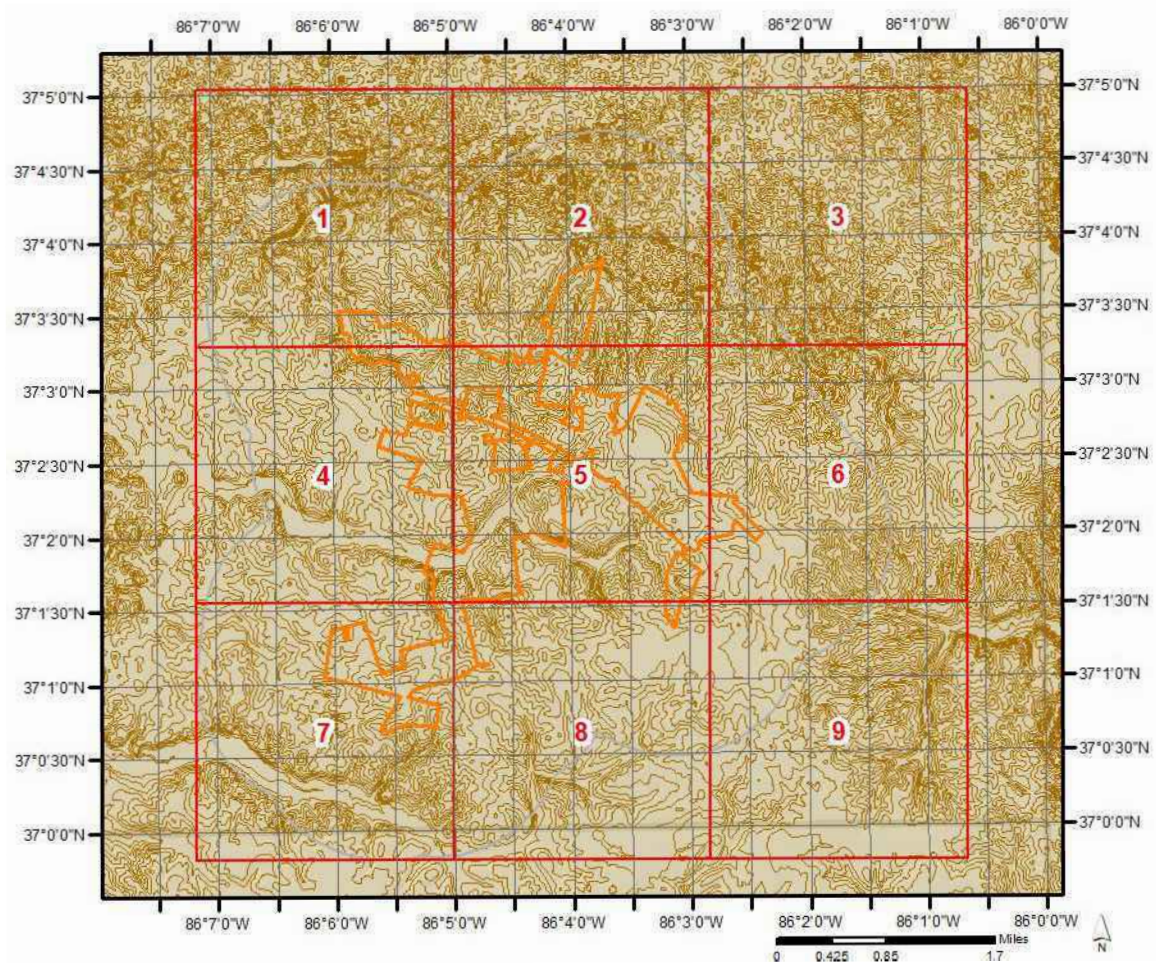


## Topographic Information

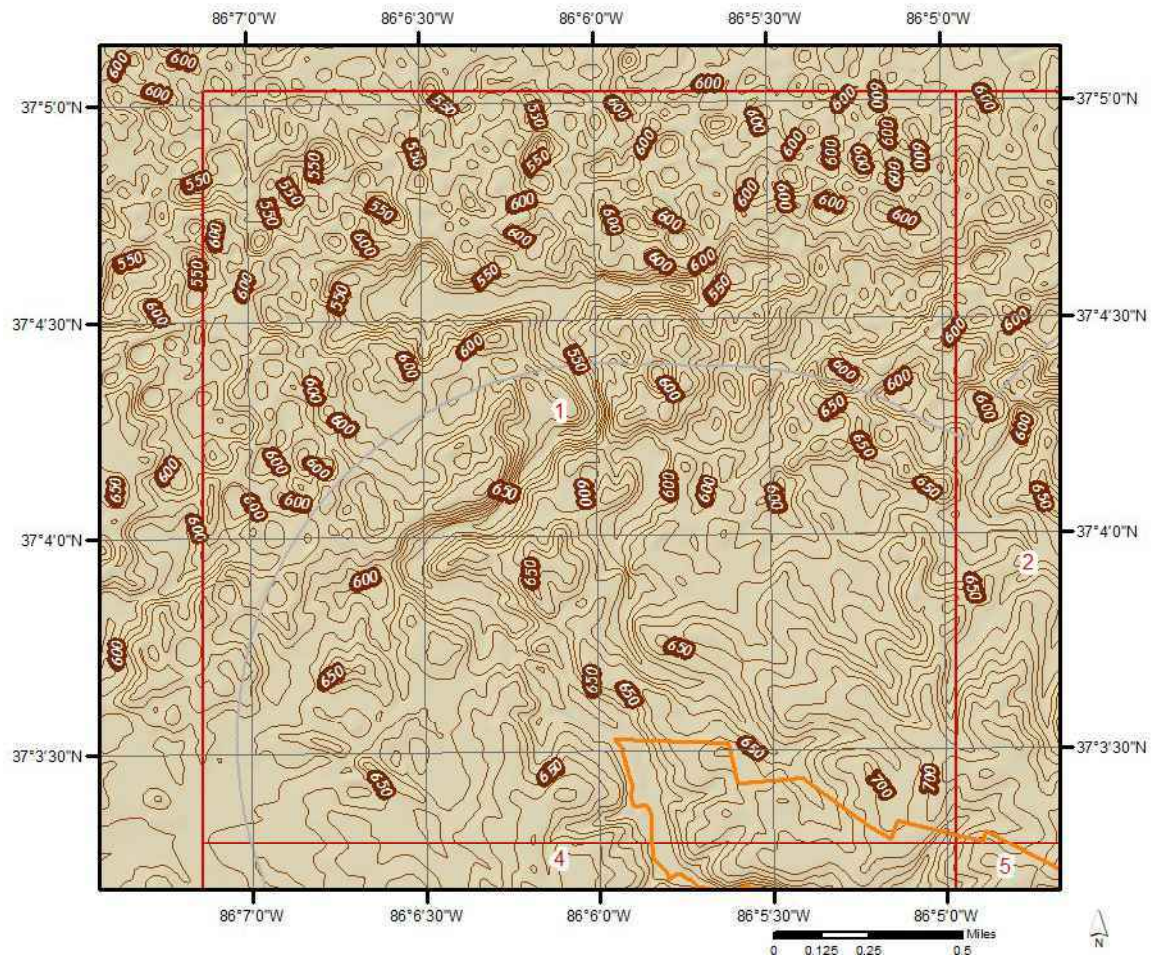
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation: 684.06 ft  
Slope Direction: SSE

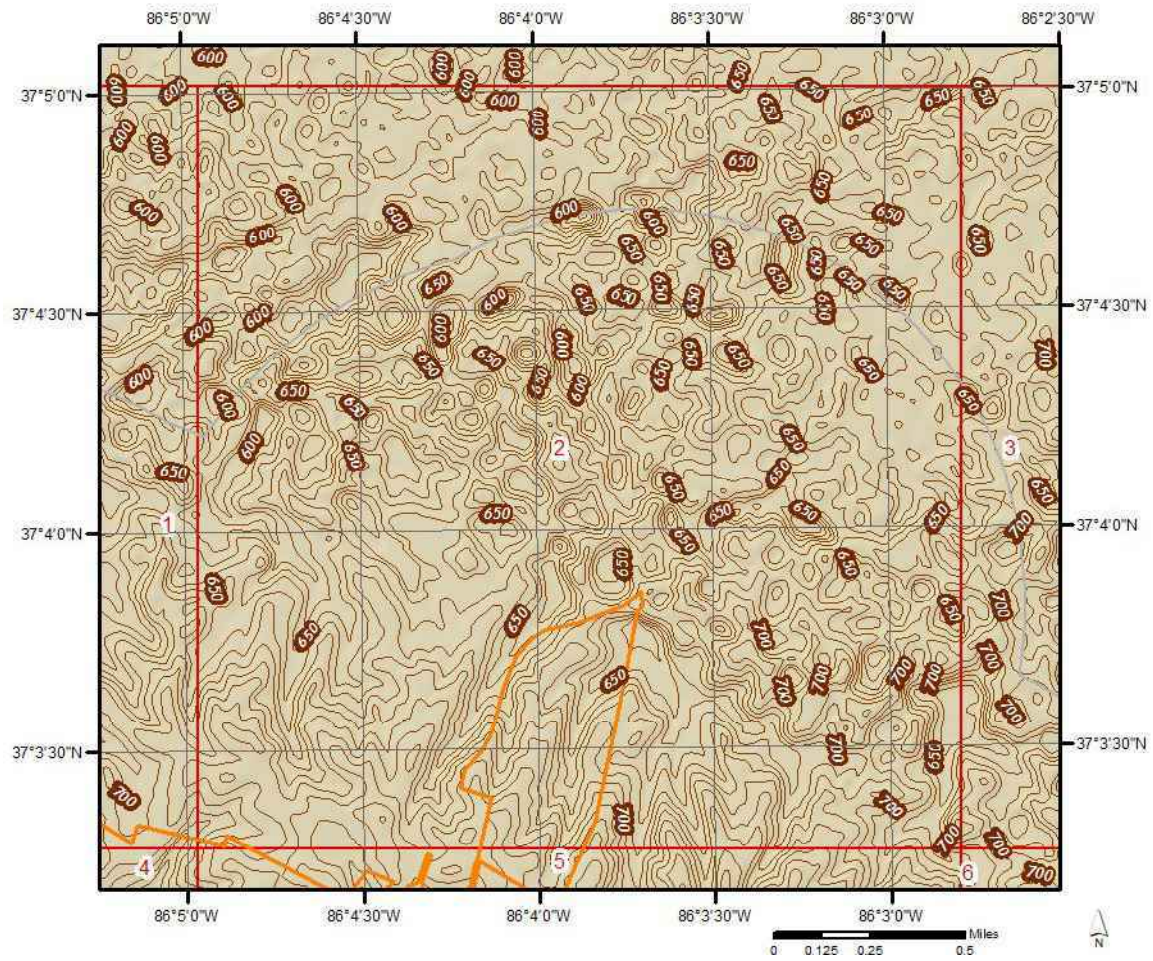


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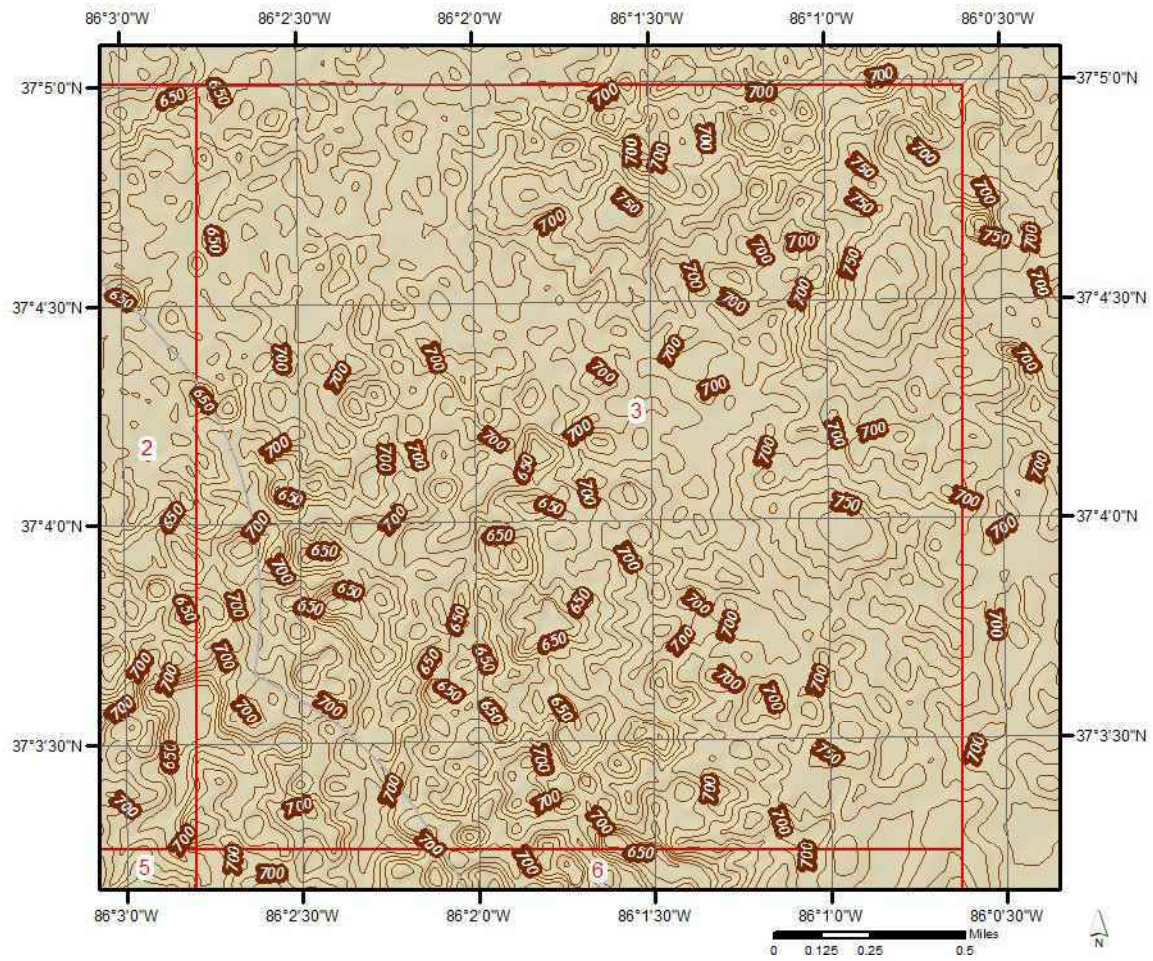


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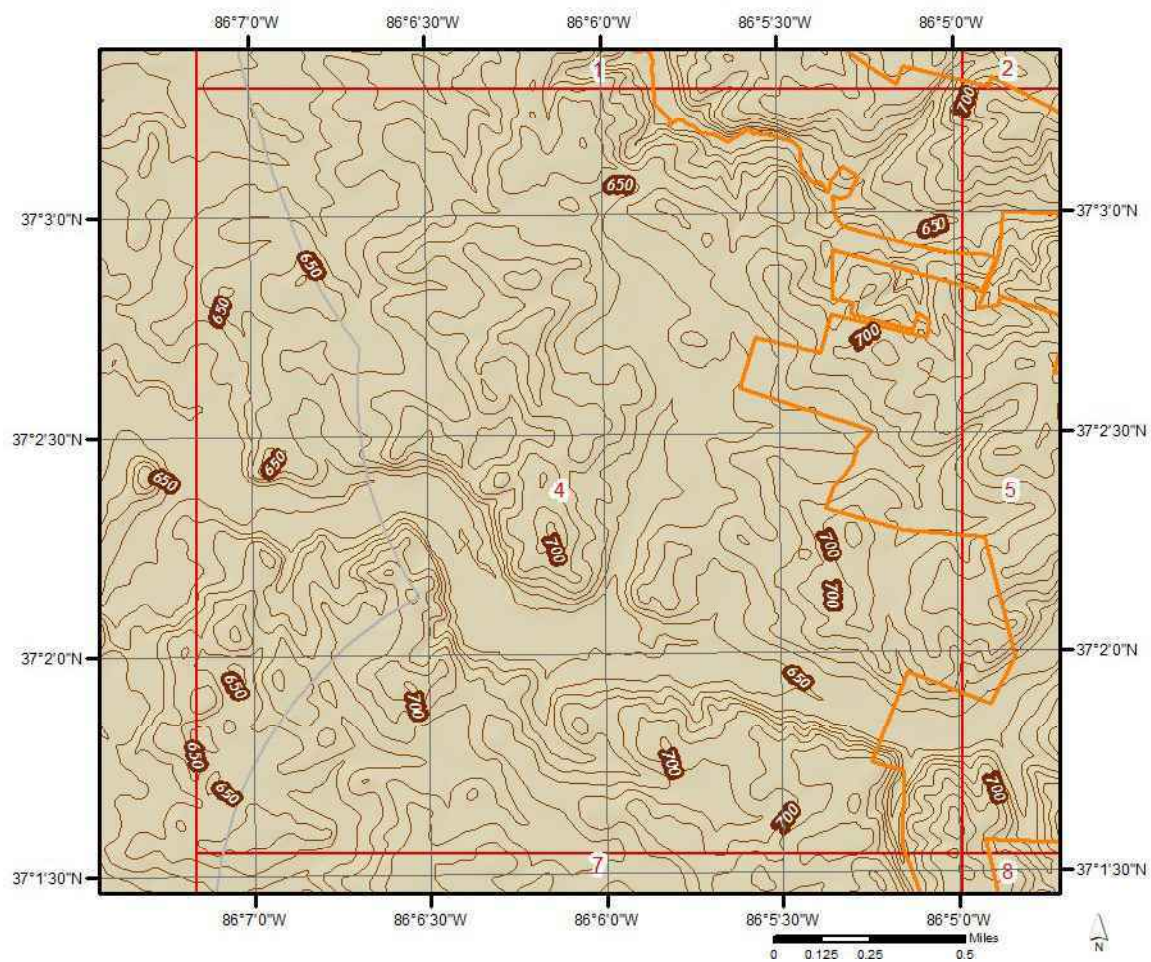




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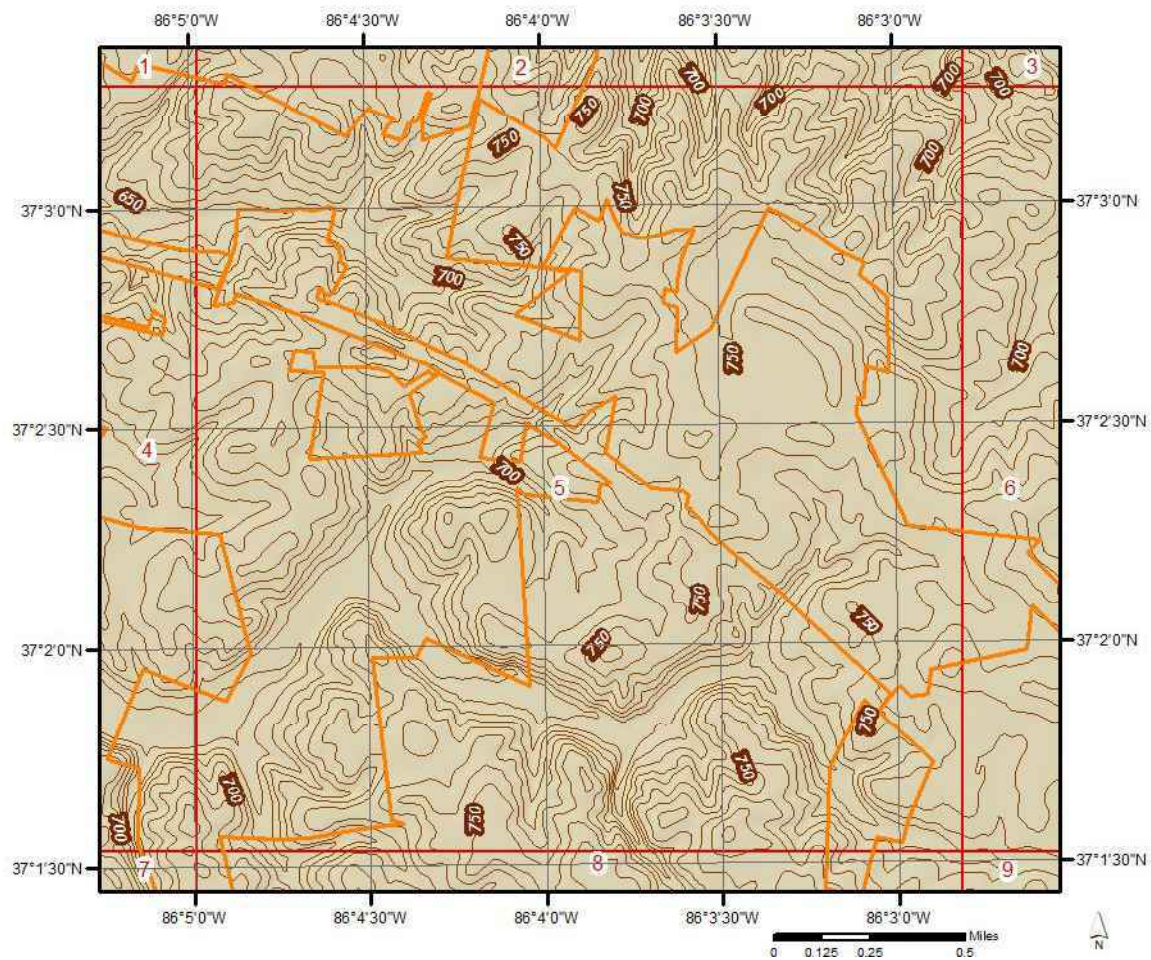


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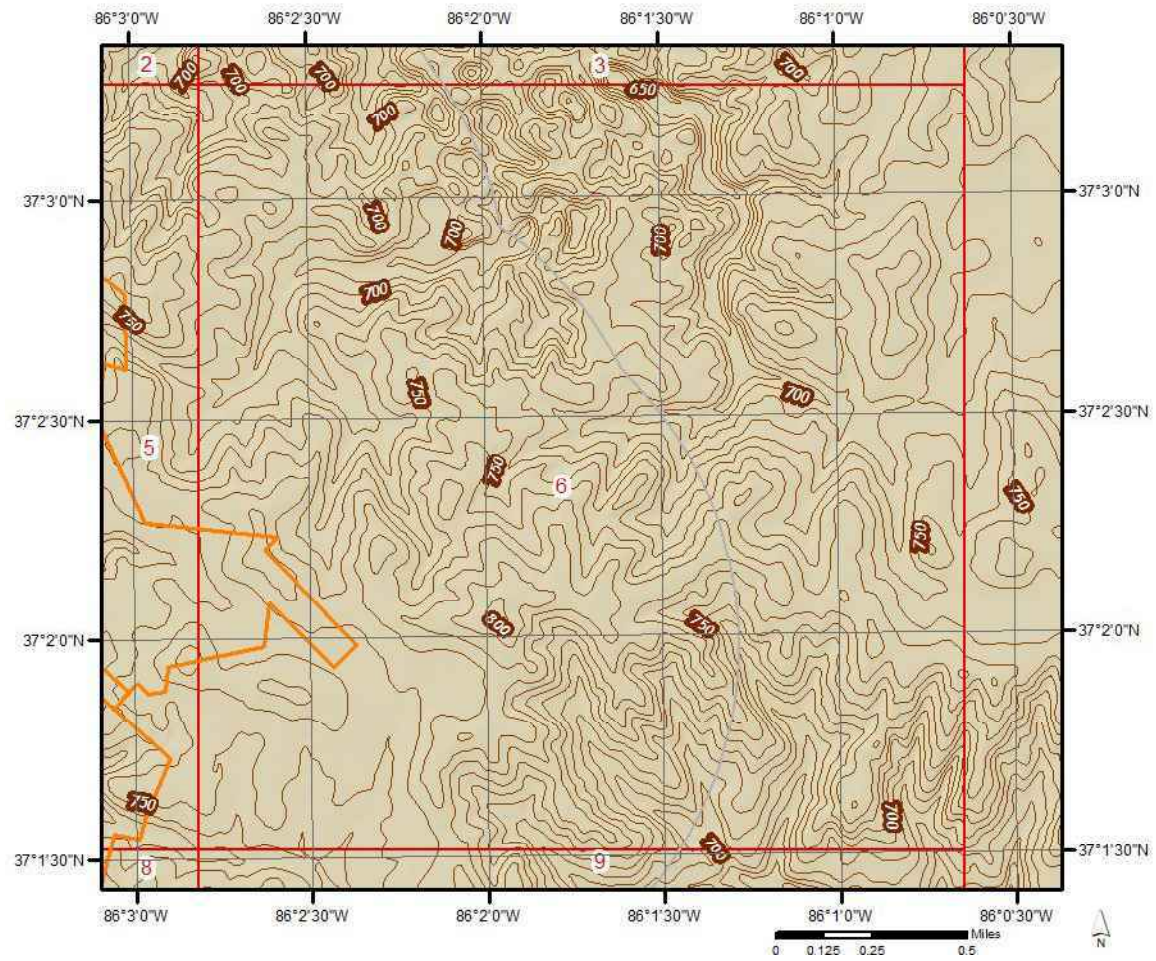


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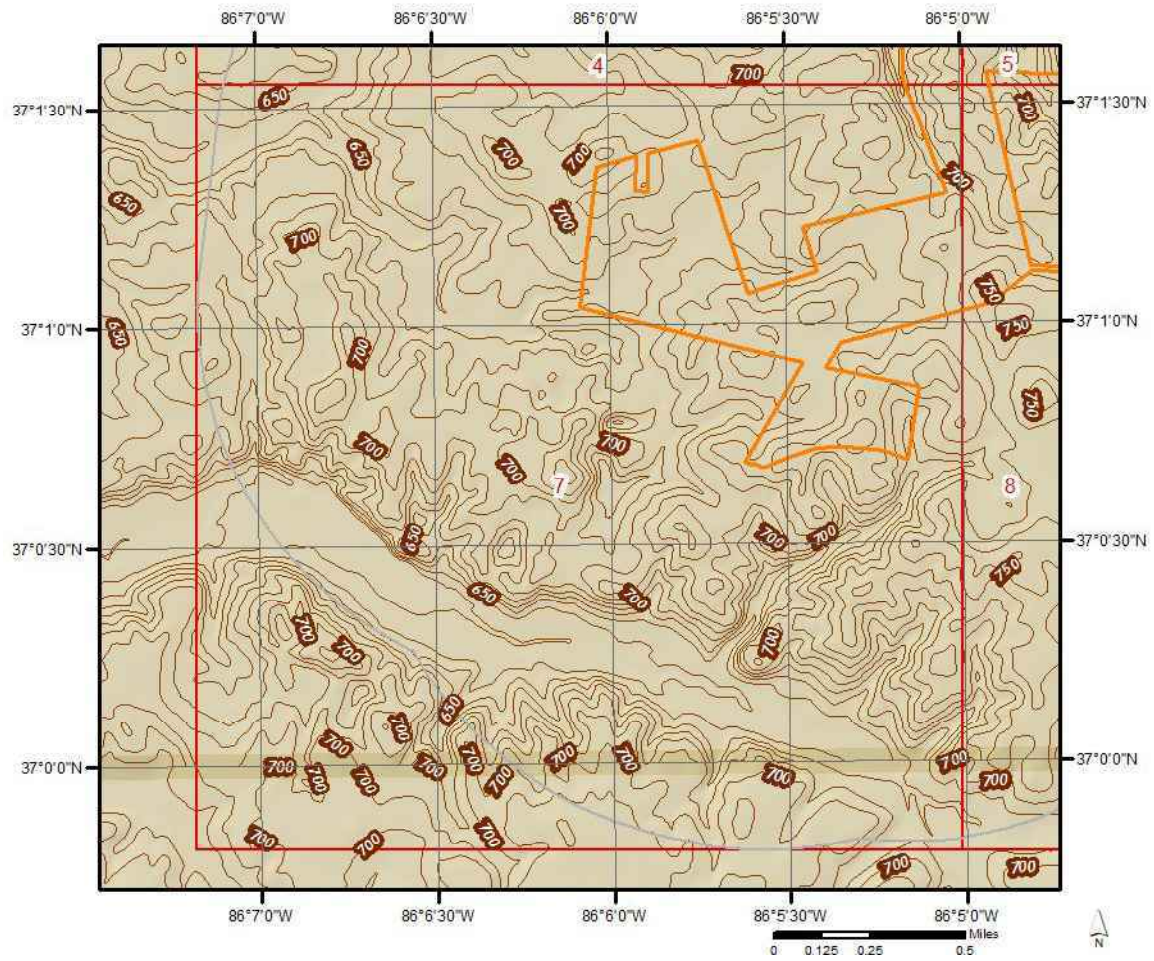




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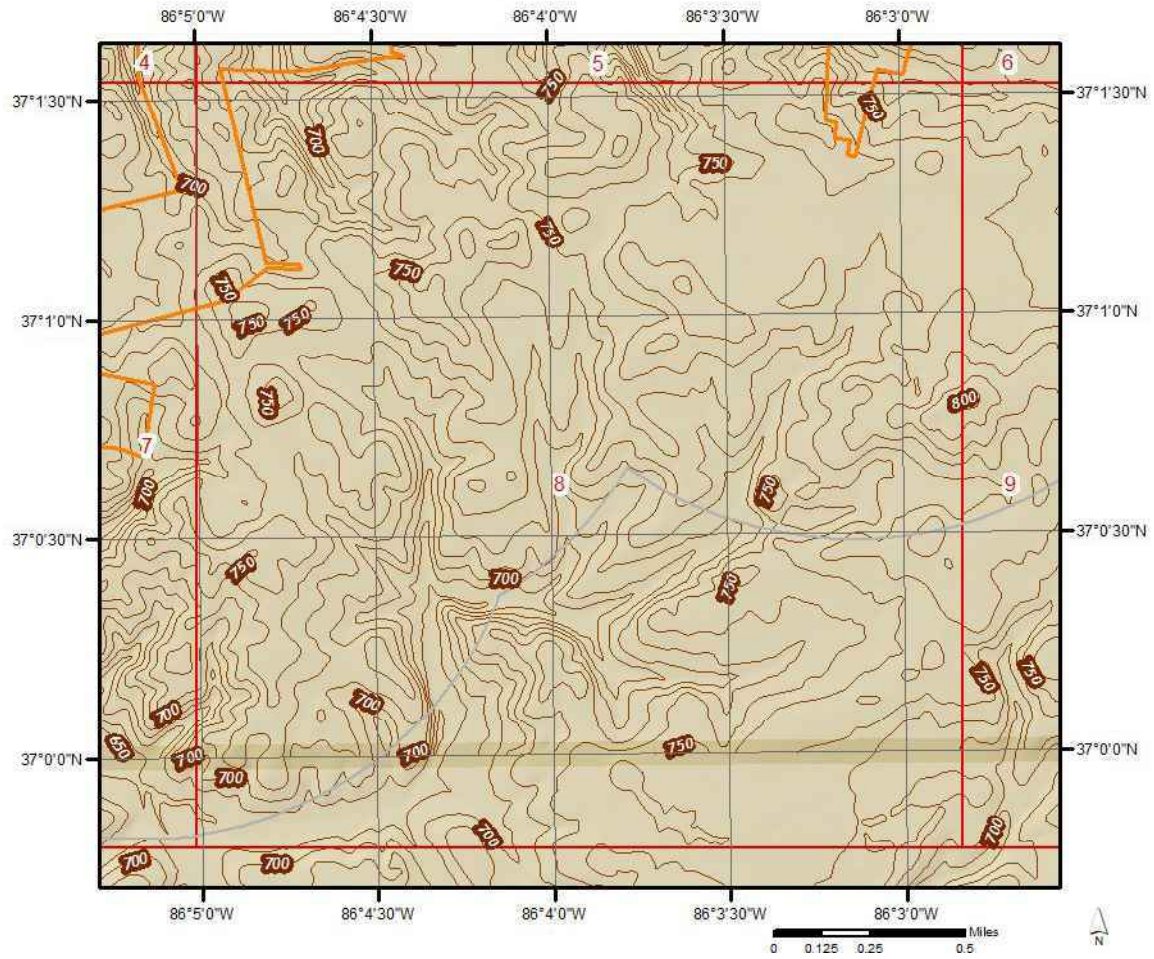


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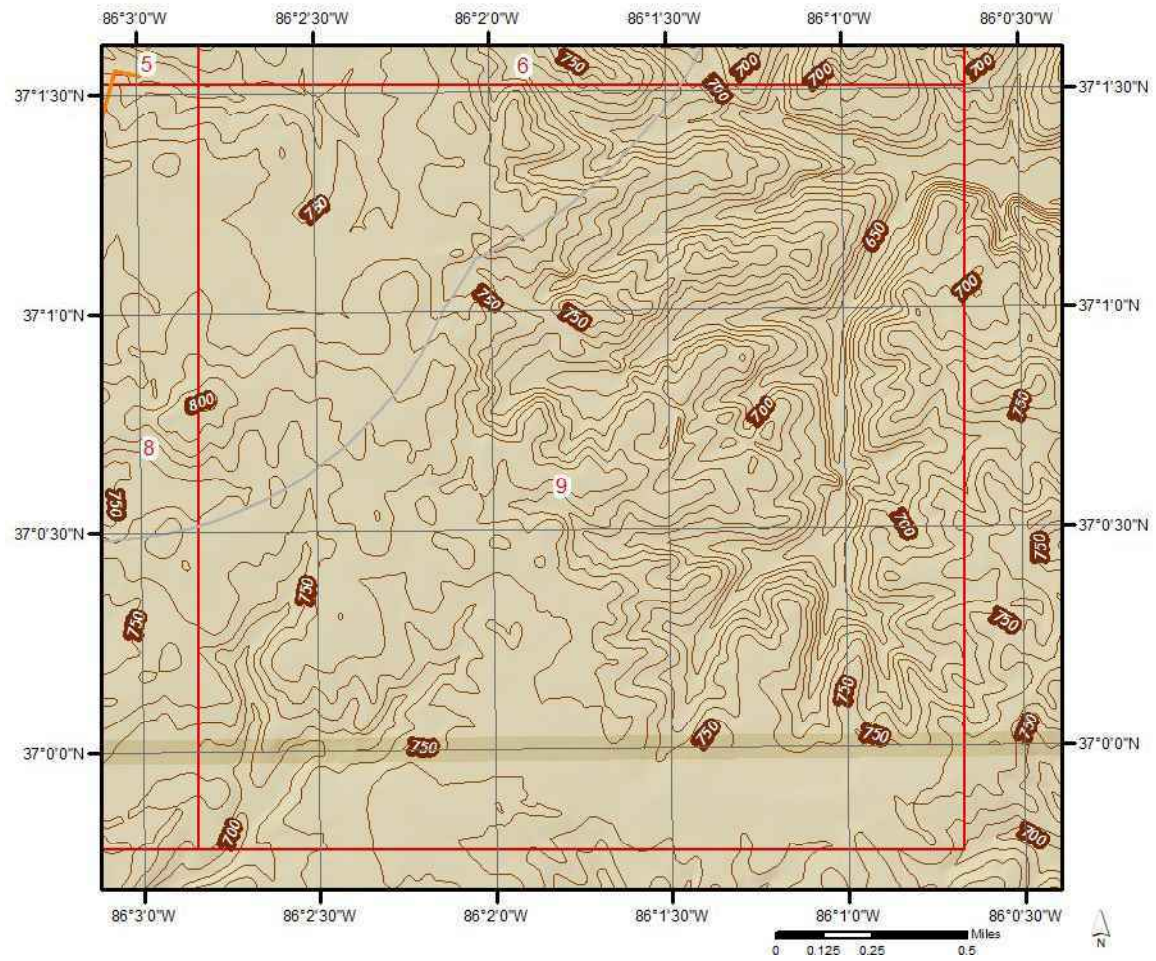


## Topographic Information



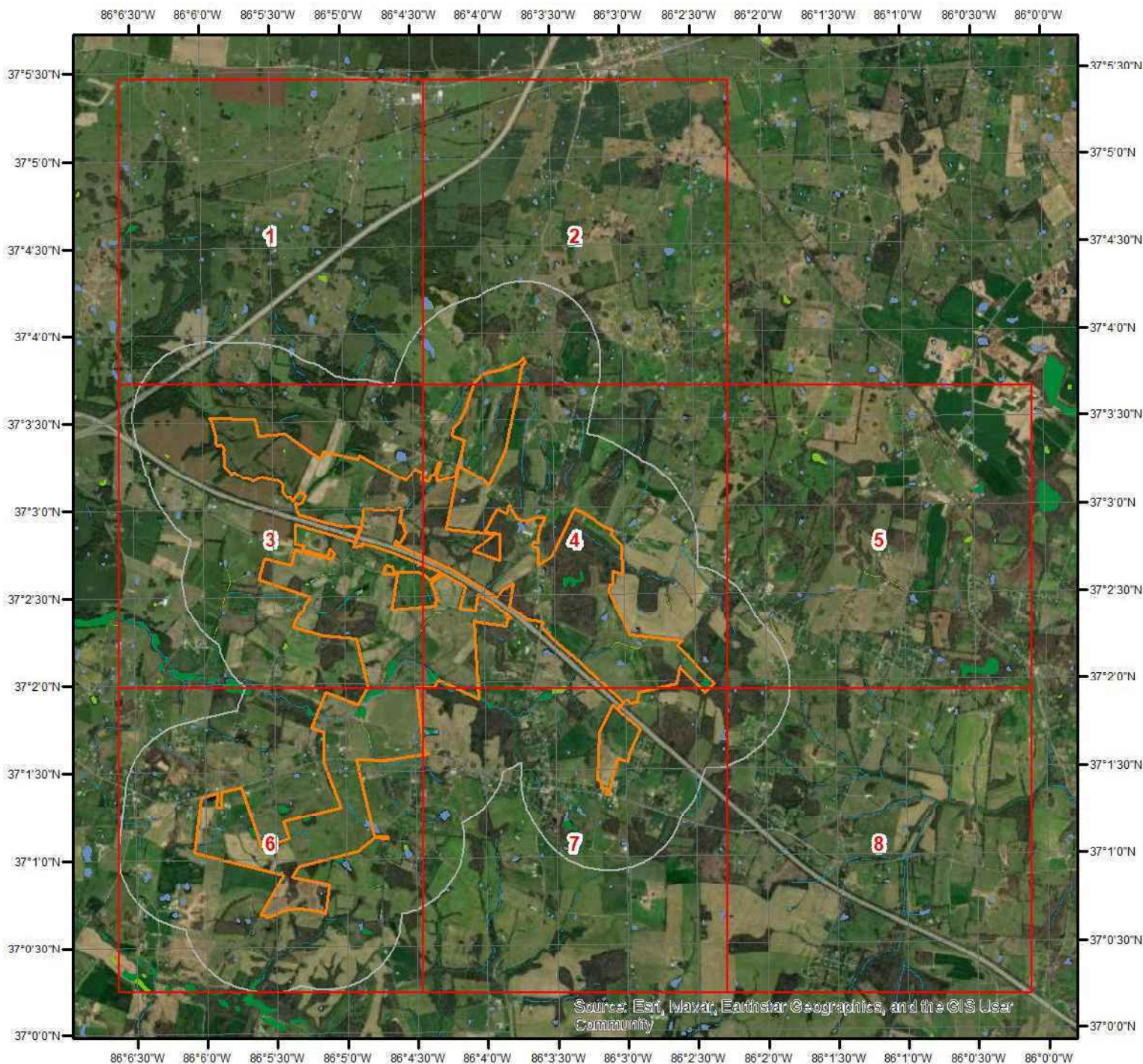


## Topographic Information

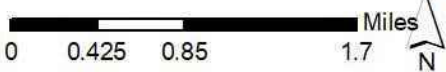




# Hydrologic Information

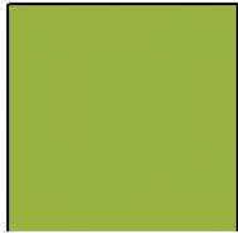


## Wetland



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

|   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |





# Hydrologic Information



## Wetland Type - Page 1

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

0 0.125 0.25 0.5 Miles



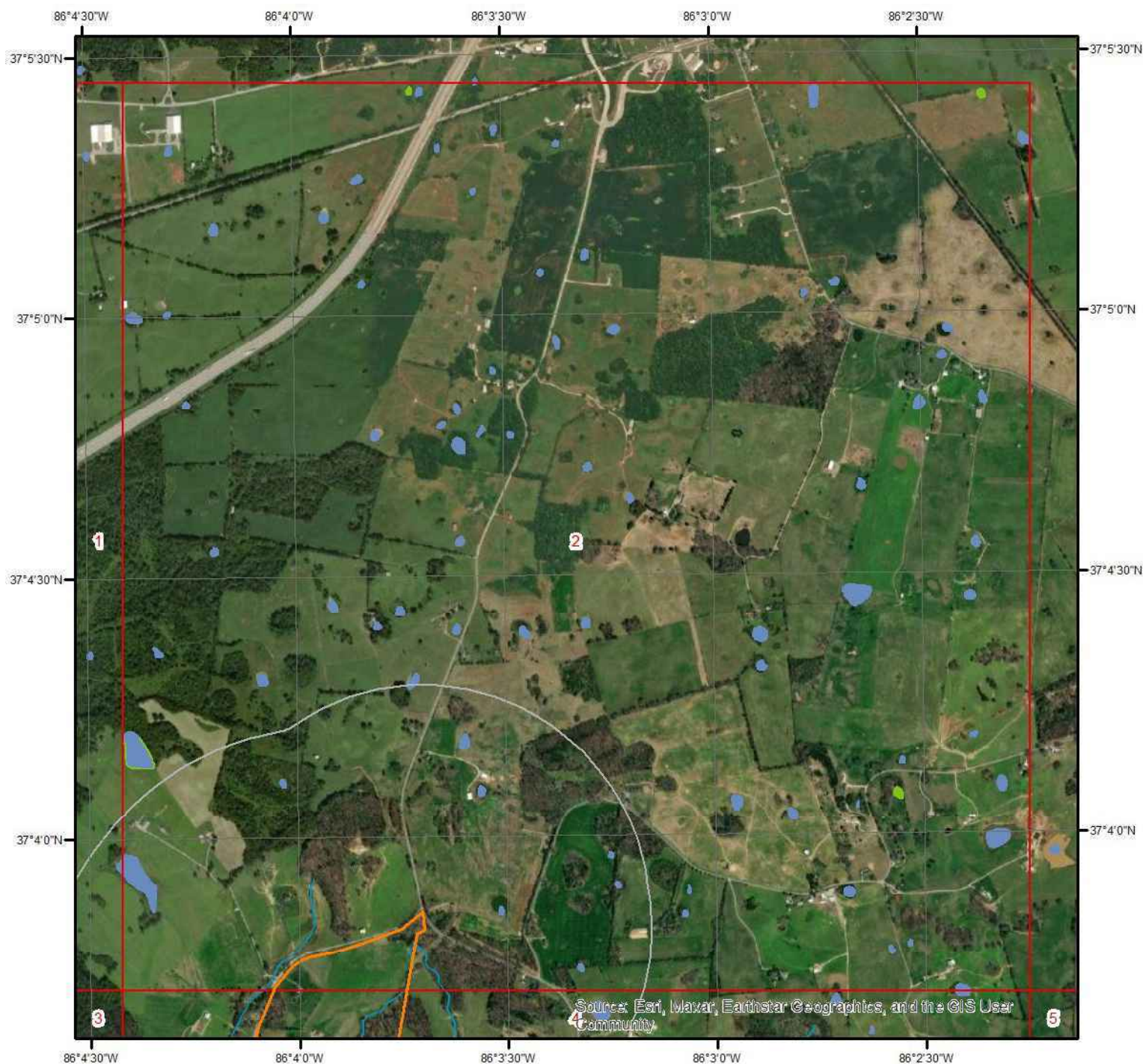
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine





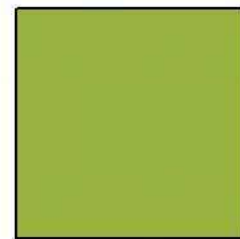
# Hydrologic Information



## Wetland Type - Page 2

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

0 0.125 0.25 0.5 Miles



- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine





Hydrologic Information

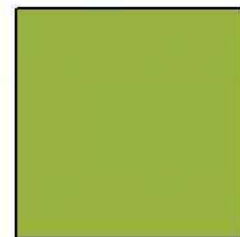
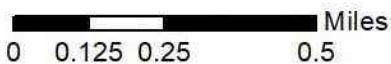


Wetland Type - Page 3

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine





# Hydrologic Information



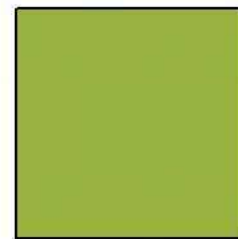
## Wetland Type - Page 4

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine

0 0.125 0.25 0.5 Miles





# Hydrologic Information

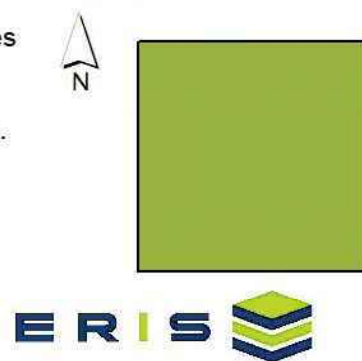


## Wetland Type - Page 5

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine





# Hydrologic Information



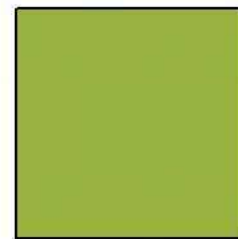
## Wetland Type - Page 6

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine

0 0.125 0.25 0.5 Miles



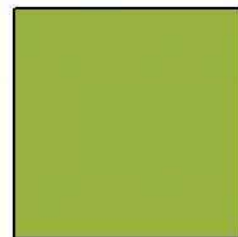
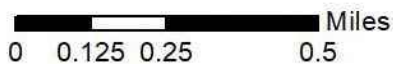


# Hydrologic Information



## Wetland Type - Page 7

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.



- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine



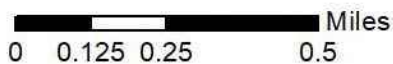


# Hydrologic Information



## Wetland Type - Page 8

This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.



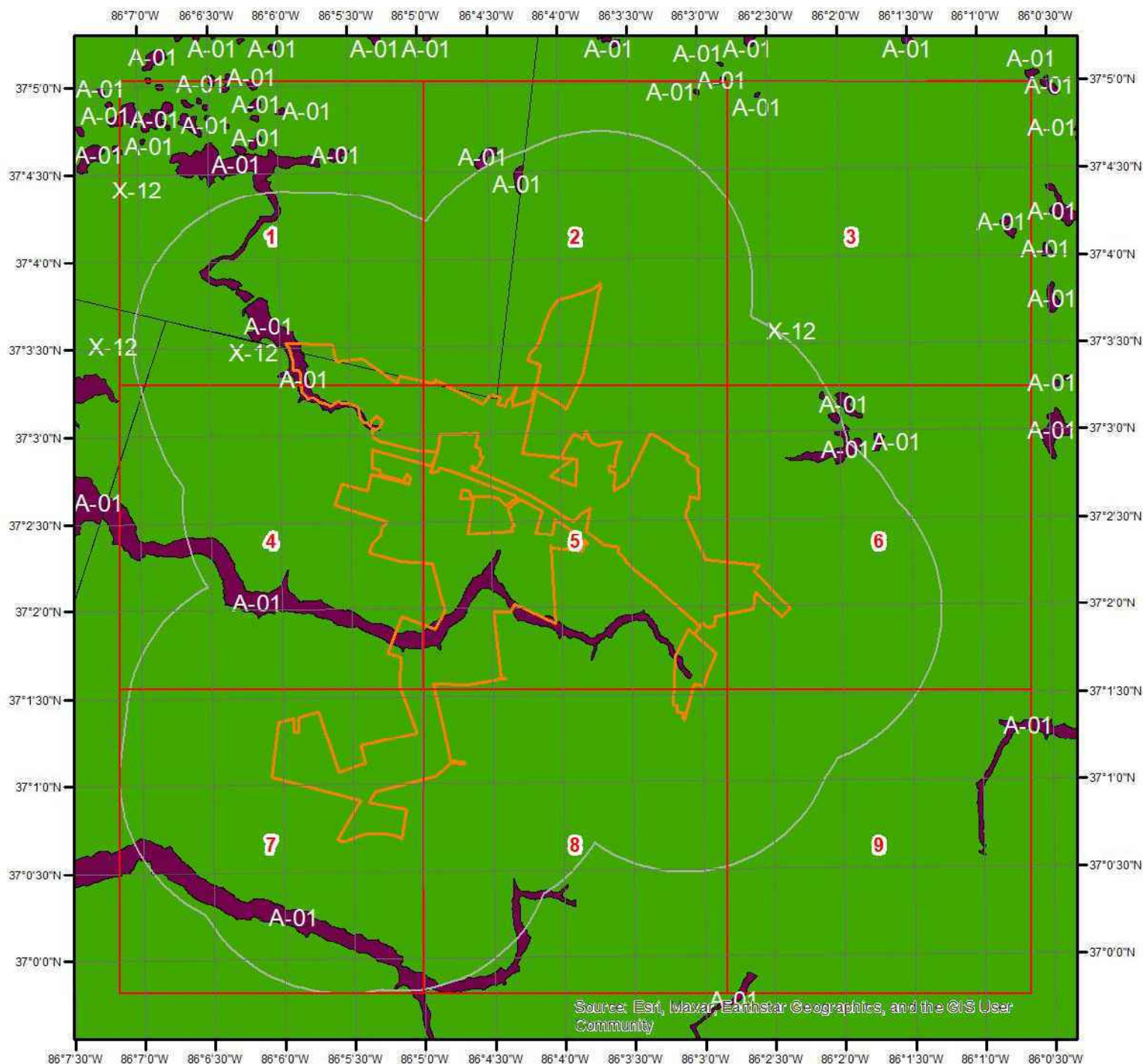
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine

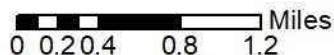




Hydrologic Information

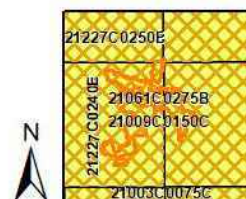


Flood Hazard Zones



This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

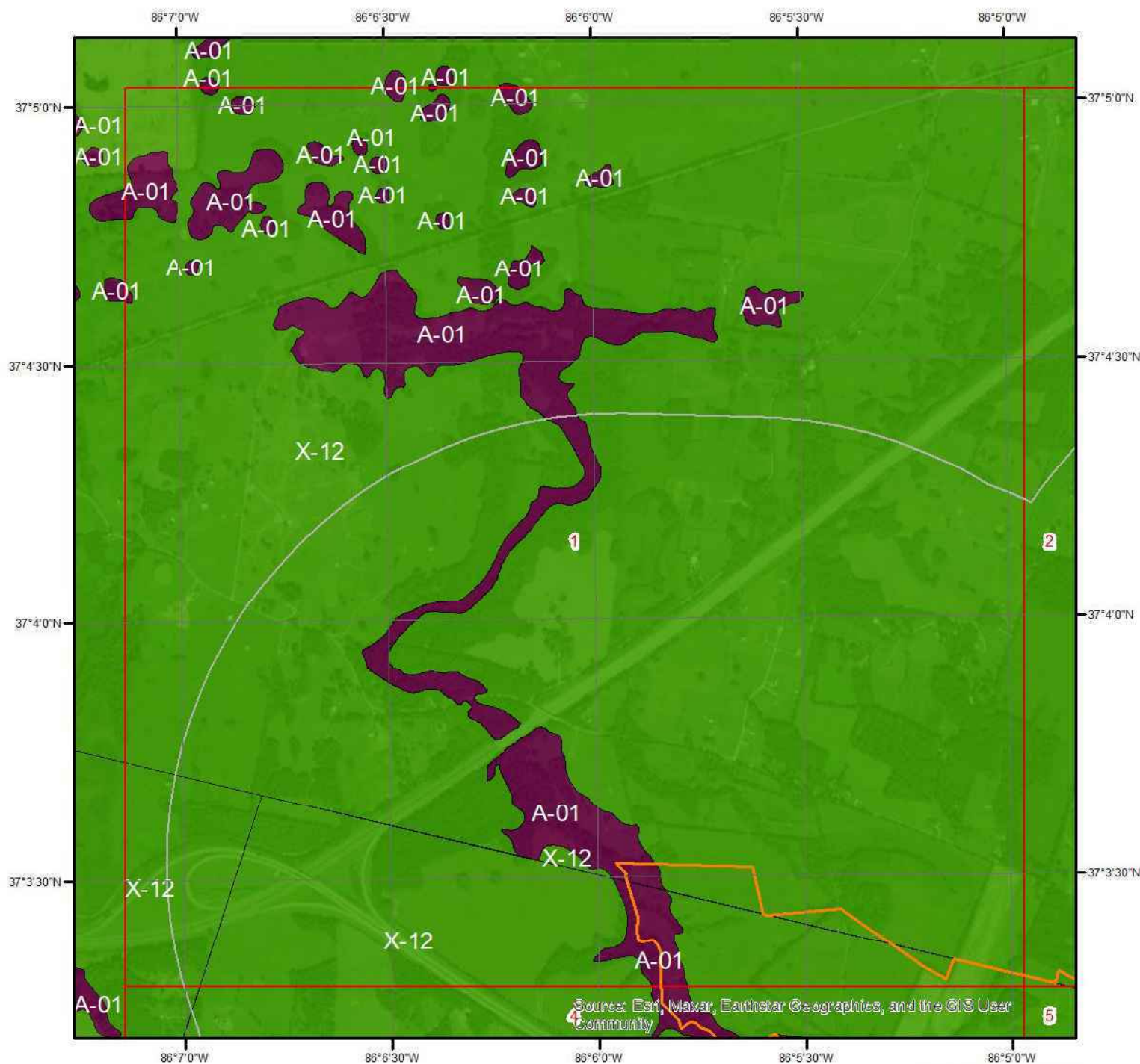
|     |    |                   |
|-----|----|-------------------|
| A   | AO | X                 |
| A99 | V  | OPEN WATER        |
| AE  | VE | NOT POPULATED     |
| AH  | D  | AREA NOT INCLUDED |



Quadrangle(s): Glasgow North,KY; Glasgow South,KY; Horse Cave,KY; Lucas,KY; Mammoth Cave,KY;















Hydrologic Information



Flood Hazard Zones - Page 1

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

- |   |  |   |
|---|--|---|
|  A   |  AO |  X                 |
|  A99 |  V  |  OPEN WATER        |
|  AE  |  VE |  NOT POPULATED     |
|  AH  |  D  |  AREA NOT INCLUDED |



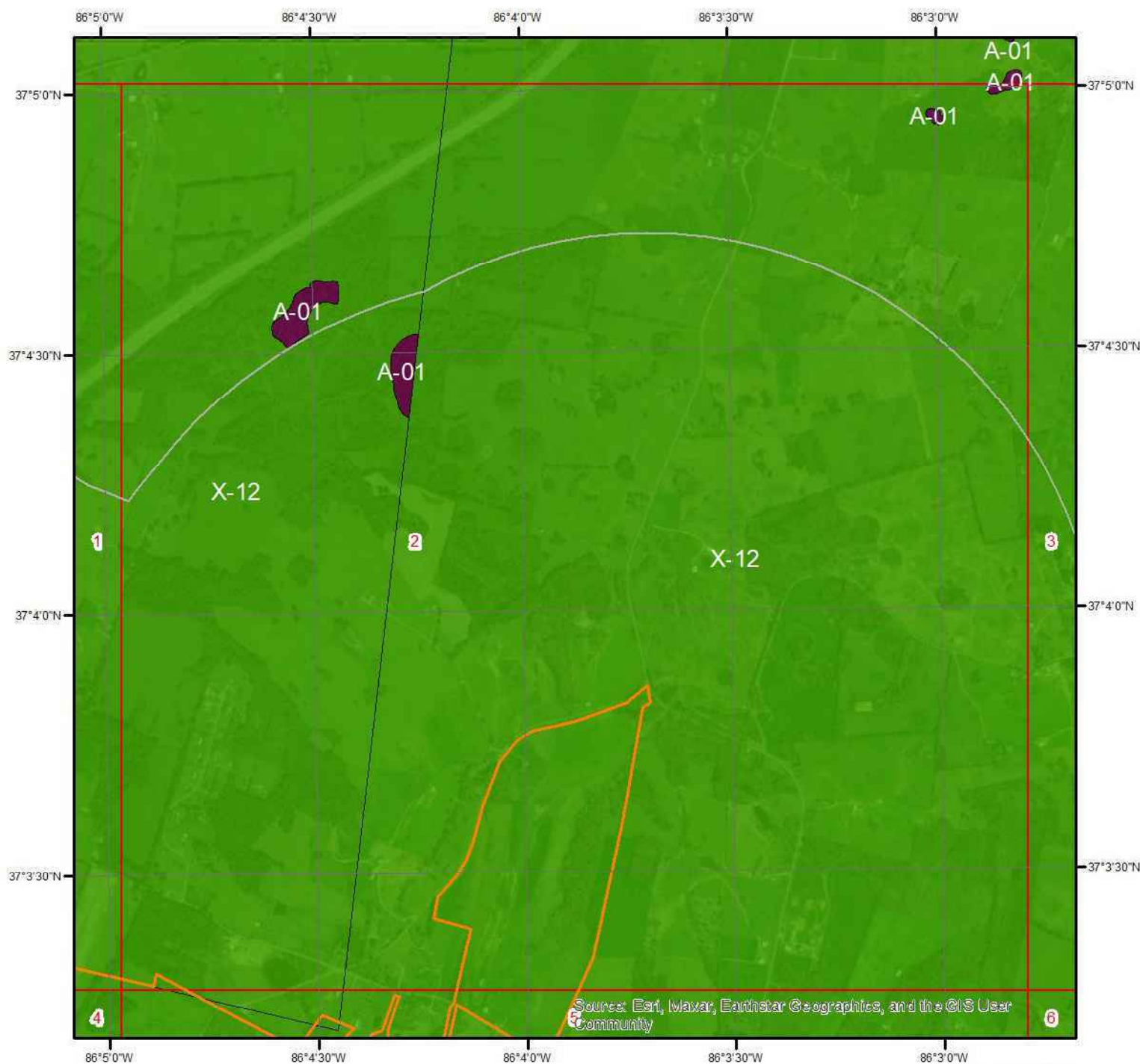
|             |
|-------------|
| 21227C0250E |
| 21061C0275B |
| 21009C0150C |
| 21227C0240E |

Quadrangle(s): Park City, KY

















Hydrologic Information



## Flood Hazard Zones - Page 2

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

|   |     |   |    |   |                   |
|---|-----|---|----|---|-------------------|
|  | A   |  | AO |  | X                 |
|  | A99 |  | V  |  | OPEN WATER        |
|  | AE  |  | VE |  | NOT POPULATED     |
|  | AH  |  | D  |  | AREA NOT INCLUDED |

0 0.2 0.4 Miles

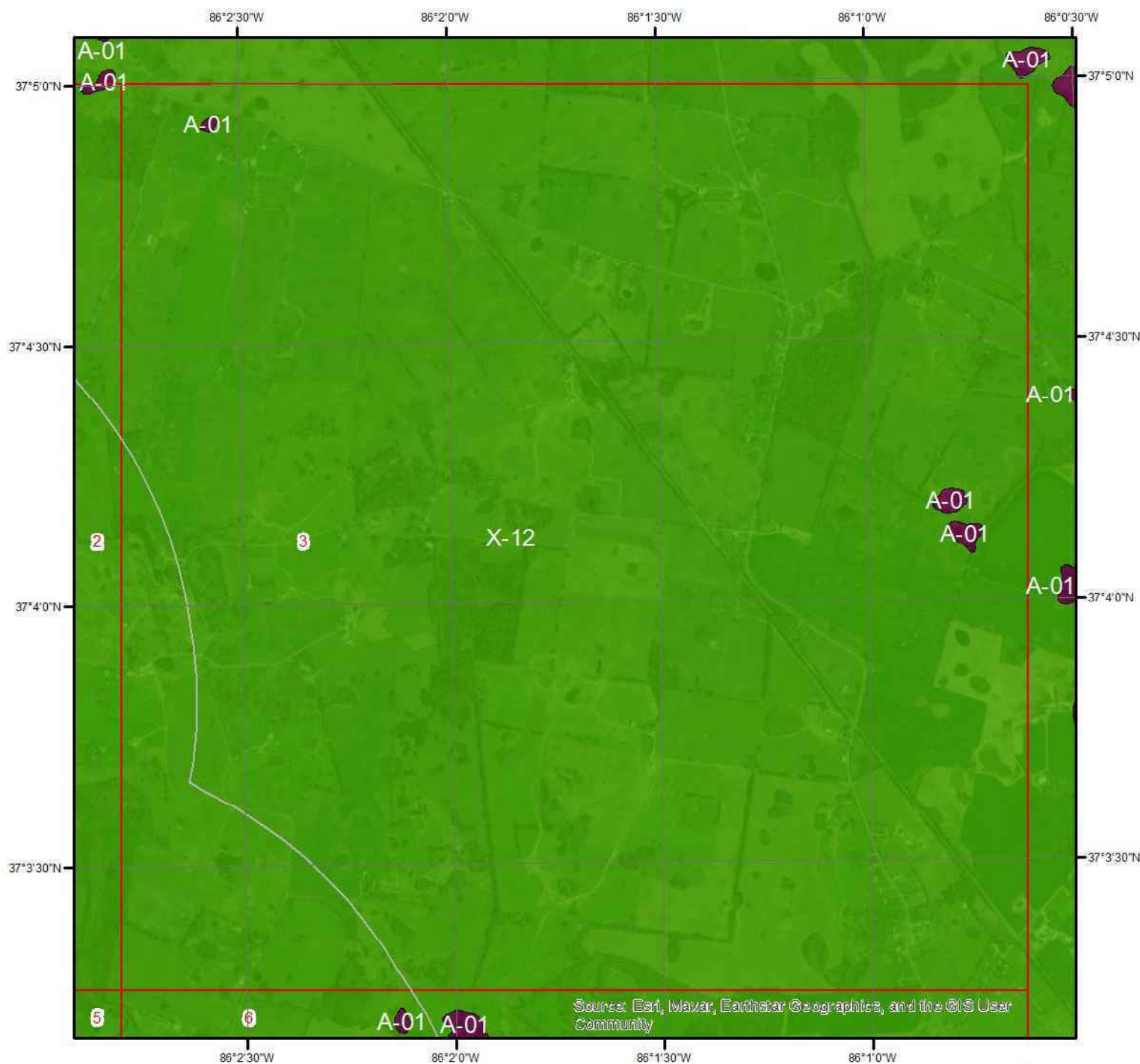


|             |             |
|-------------|-------------|
| 21227C0250E | 21061C0275B |
| 21009C0150C |             |

Quadrangle(s): Park City, KY















Hydrologic Information



### Flood Hazard Zones - Page 3

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

- |   |  |   |
|---|--|---|
|  A   |  AO |  X                 |
|  A99 |  V  |  OPEN WATER        |
|  AE  |  VE |  NOT POPULATED     |
|  AH  |  D  |  AREA NOT INCLUDED |

0 0.2 0.4 Miles

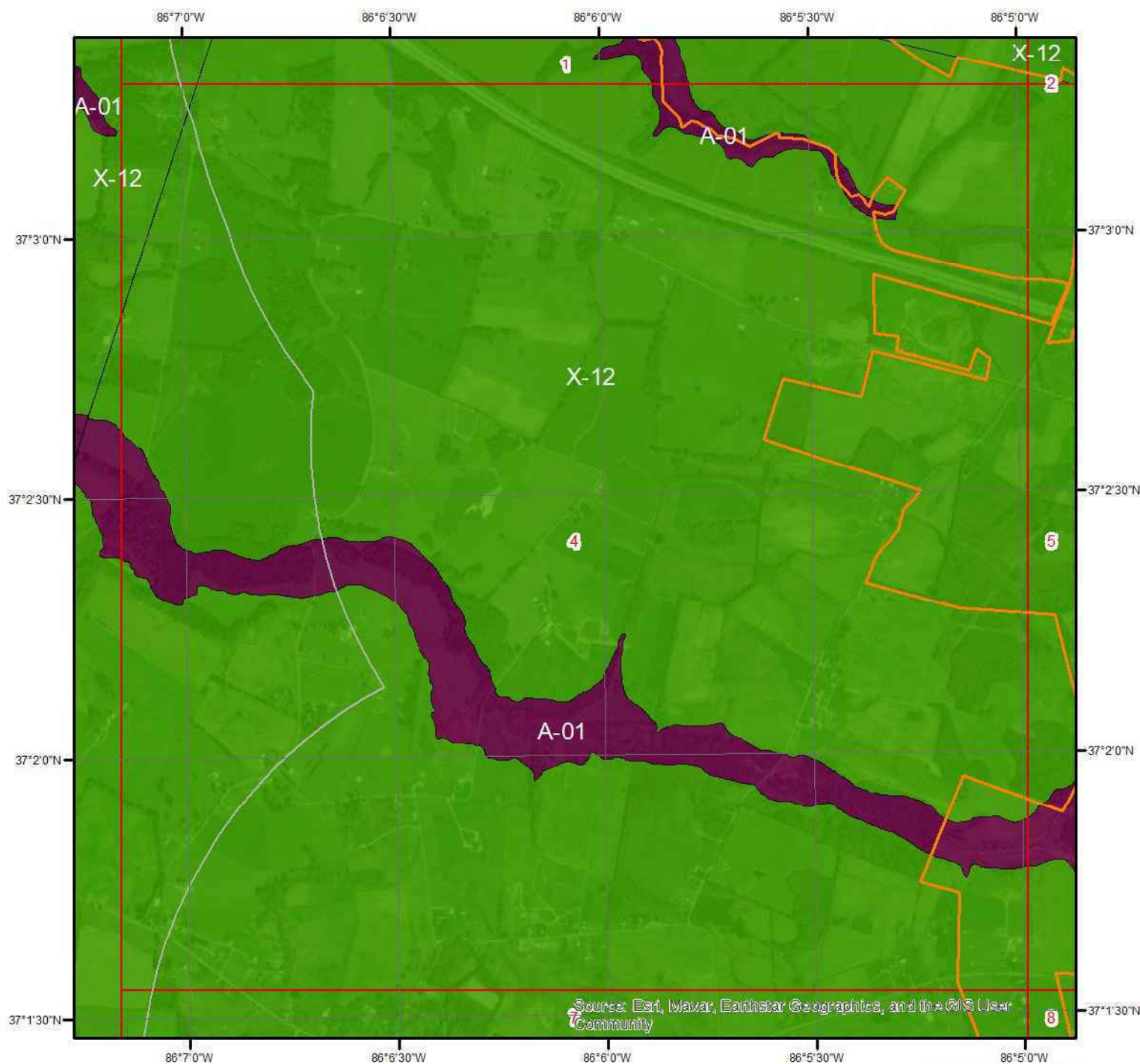


|             |
|-------------|
| 21009C0135C |
| 21061C0275B |
| 21009C0150C |

Quadrangle(s): Park City, KY



















## Flood Hazard Zones - Page 4

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

|   |     |   |    |   |                   |
|---|-----|---|----|---|-------------------|
|  | A   |  | AO |  | X                 |
|  | A99 |  | V  |  | OPEN WATER        |
|  | AE  |  | VE |  | NOT POPULATED     |
|  | AH  |  | D  |  | AREA NOT INCLUDED |

0 0.2 0.4 Miles



Quadrangle(s): Park City, KY

















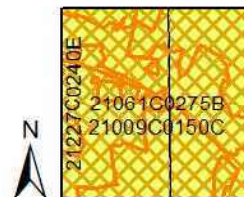


## Flood Hazard Zones - Page 5

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

|   |     |   |    |   |                   |
|---|-----|---|----|---|-------------------|
|  | A   |  | AO |  | X                 |
|  | A99 |  | V  |  | OPEN WATER        |
|  | AE  |  | VE |  | NOT POPULATED     |
|  | AH  |  | D  |  | AREA NOT INCLUDED |

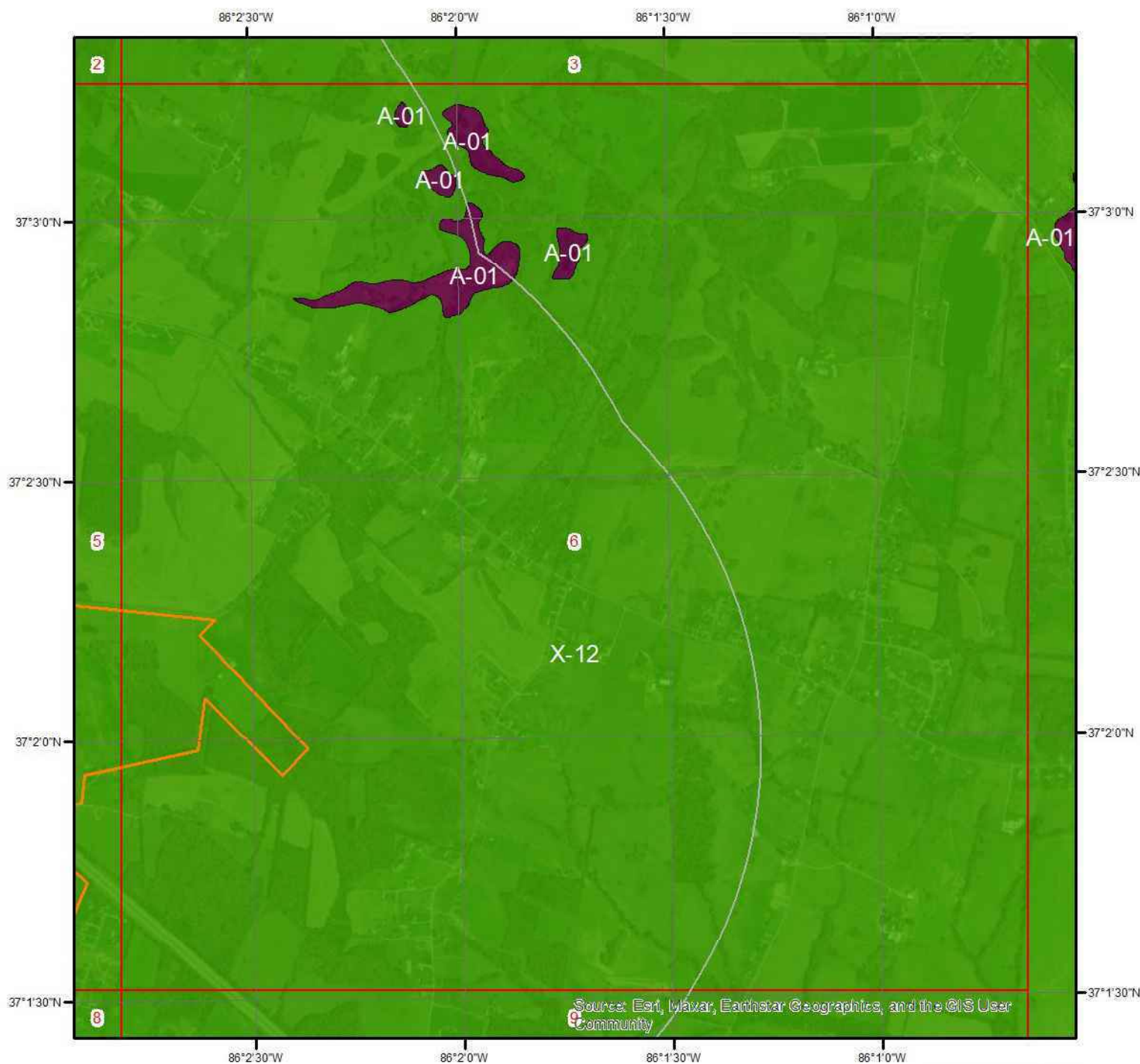
0 0.2 0.4 Miles



Quadrangle(s): Park City, KY















Hydrologic Information



## Flood Hazard Zones - Page 6

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

|   |     |   |    |   |                   |
|---|-----|---|----|---|-------------------|
|  | A   |  | AO |  | X                 |
|  | A99 |  | V  |  | OPEN WATER        |
|  | AE  |  | VE |  | NOT POPULATED     |
|  | AH  |  | D  |  | AREA NOT INCLUDED |

0 0.2 0.4 Miles

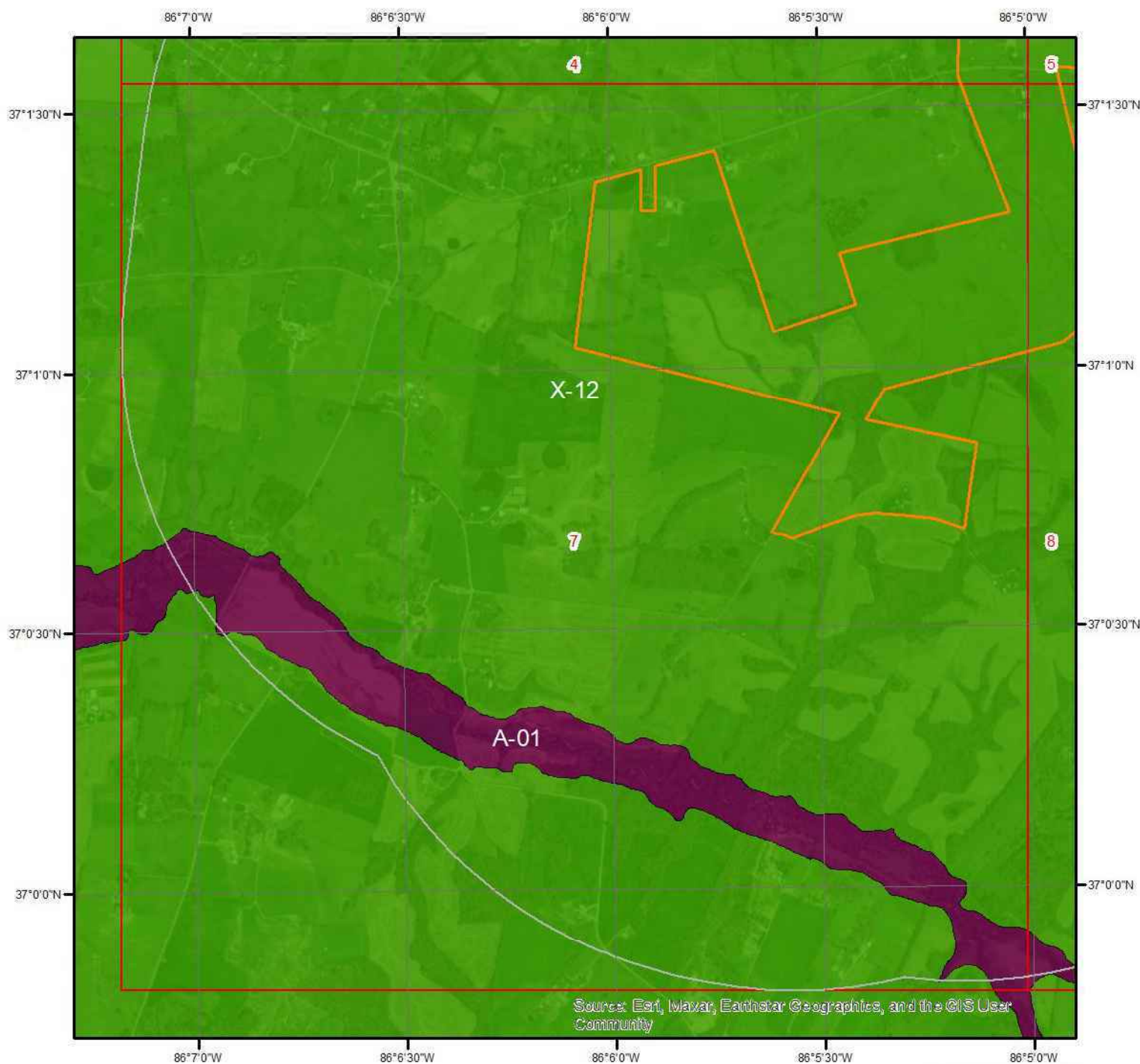


Quadrangle(s): Park City, KY

















Hydrologic Information



## Flood Hazard Zones - Page 7

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

|   |     |   |    |   |                   |
|---|-----|---|----|---|-------------------|
|  | A   |  | AO |  | X                 |
|  | A99 |  | V  |  | OPEN WATER        |
|  | AE  |  | VE |  | NOT POPULATED     |
|  | AH  |  | D  |  | AREA NOT INCLUDED |

0 0.2 0.4 Miles



|             |
|-------------|
| 21227C0240E |
| 21061C0275B |
| 21009C0150C |
| 21003C0075C |
| 21009C0255C |

Quadrangle(s): Lucas, KY; Park City, KY





Hydrologic Information



Flood Hazard Zones - Page 8

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

- |     |    |                   |
|-----|----|-------------------|
| A   | AO | X                 |
| A99 | V  | OPEN WATER        |
| AE  | VE | NOT POPULATED     |
| AH  | D  | AREA NOT INCLUDED |

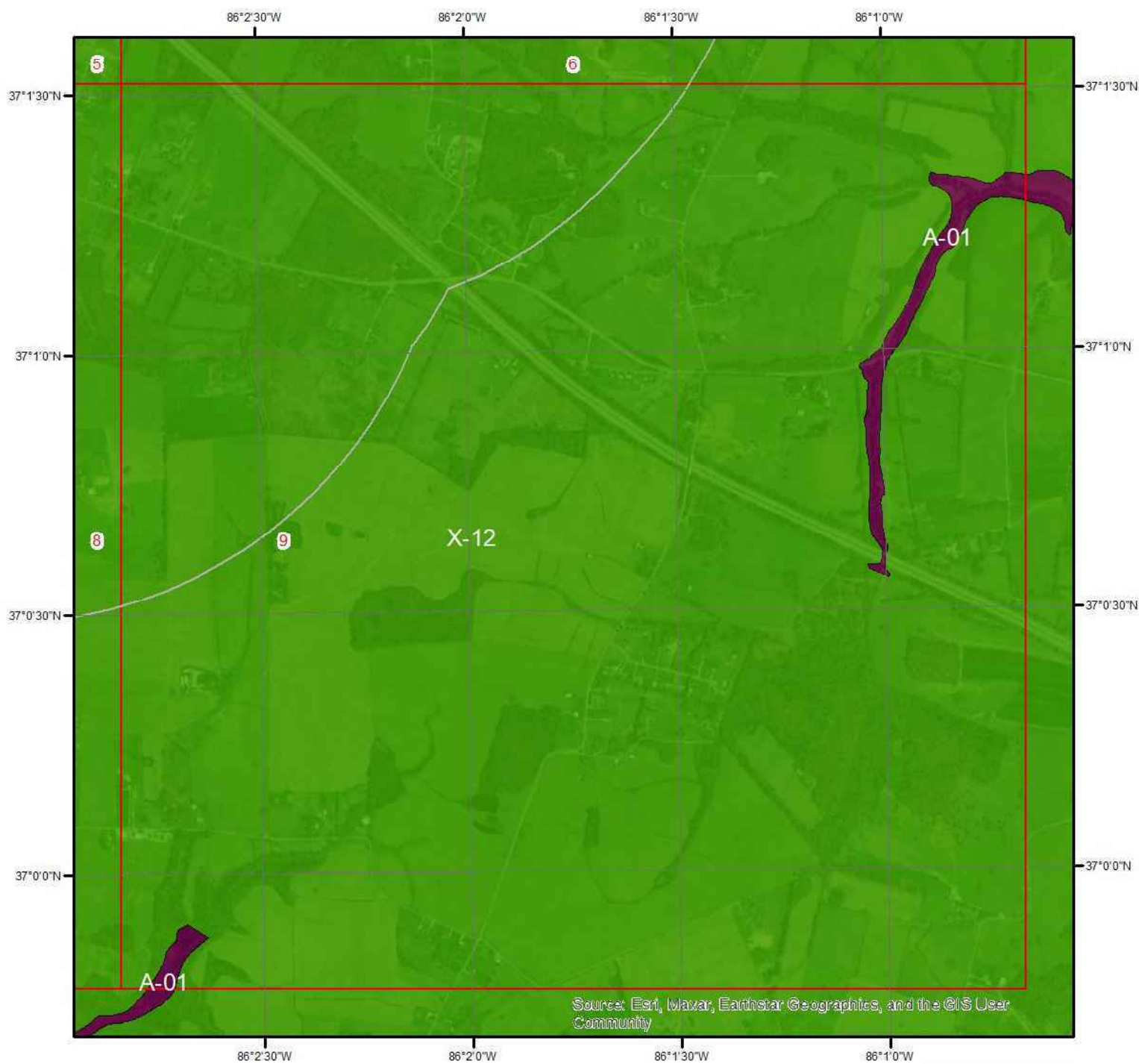


|             |             |
|-------------|-------------|
| 21227C0240E | 21009C0150C |
|             | 21061C0275B |
|             | 21009C0255C |
|             | 21003C0075C |

Quadrangle(s): Lucas, KY; Park City, KY



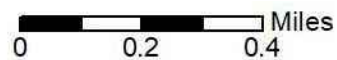
Hydrologic Information



Flood Hazard Zones - Page 9

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

- |     |    |                   |
|-----|----|-------------------|
| A   | AO | X                 |
| A99 | V  | OPEN WATER        |
| AE  | VE | NOT POPULATED     |
| AH  | D  | AREA NOT INCLUDED |



|             |
|-------------|
| 21009C0150C |
| 21061C0275B |
| 21009C0075C |
| 21009C0260C |

Quadrangle(s): Lucas, KY; Park City, KY



## Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.

For detailed Zone descriptions please click the link: <https://floodadvocate.com/fema-zone-definitions>

---

Available FIRM Panels in area:

21003C0075C(effective:2011-07-04) 21009C0255C(effective:2011-05-03)  
21009C0150C(effective:2011-05-03) 21009C0135C(effective:2011-05-03)  
21061C0275B(effective:2010-10-19) 21227C0240E(effective:2007-05-02)  
21227C0250E(effective:2007-05-02)

---

### Flood Zone A-01

Zone:

A

Zone subtype:

---

### Flood Zone X-12

Zone:

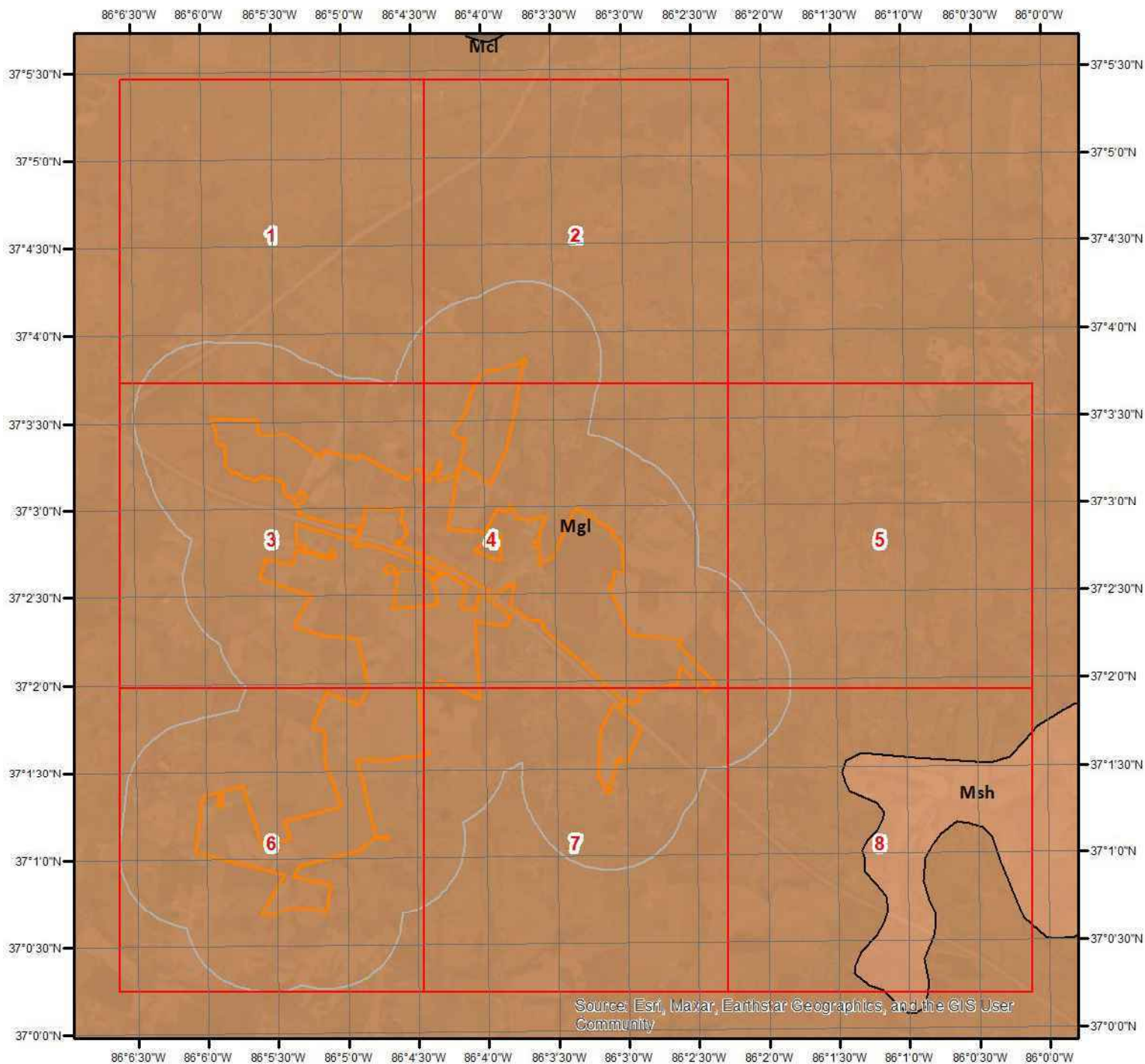
X

Zone subtype:

AREA OF MINIMAL FLOOD HAZARD

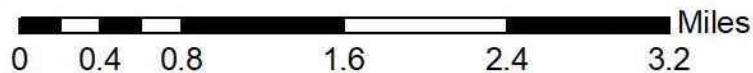


Geologic Information

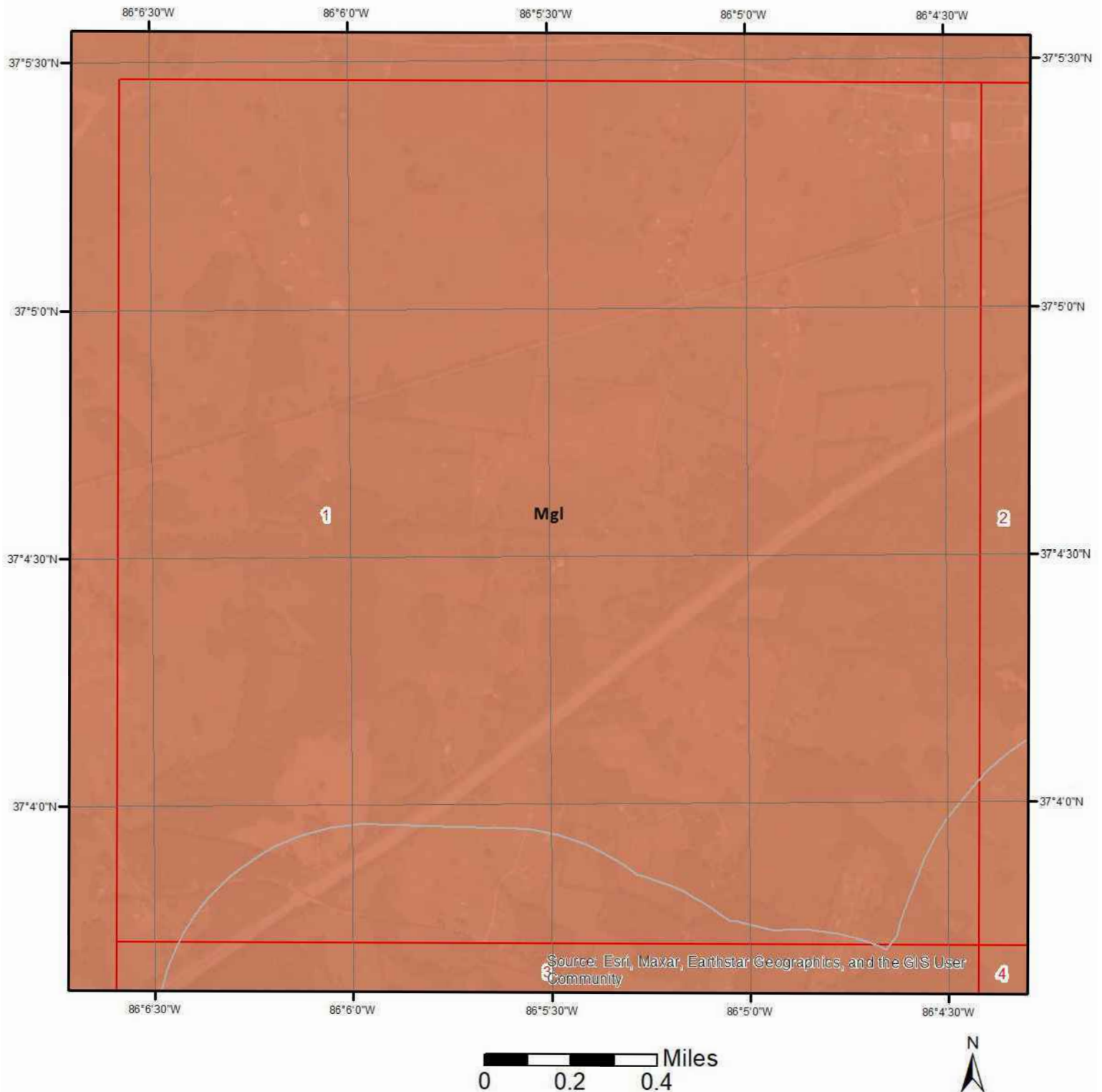


Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



## Geologic Information

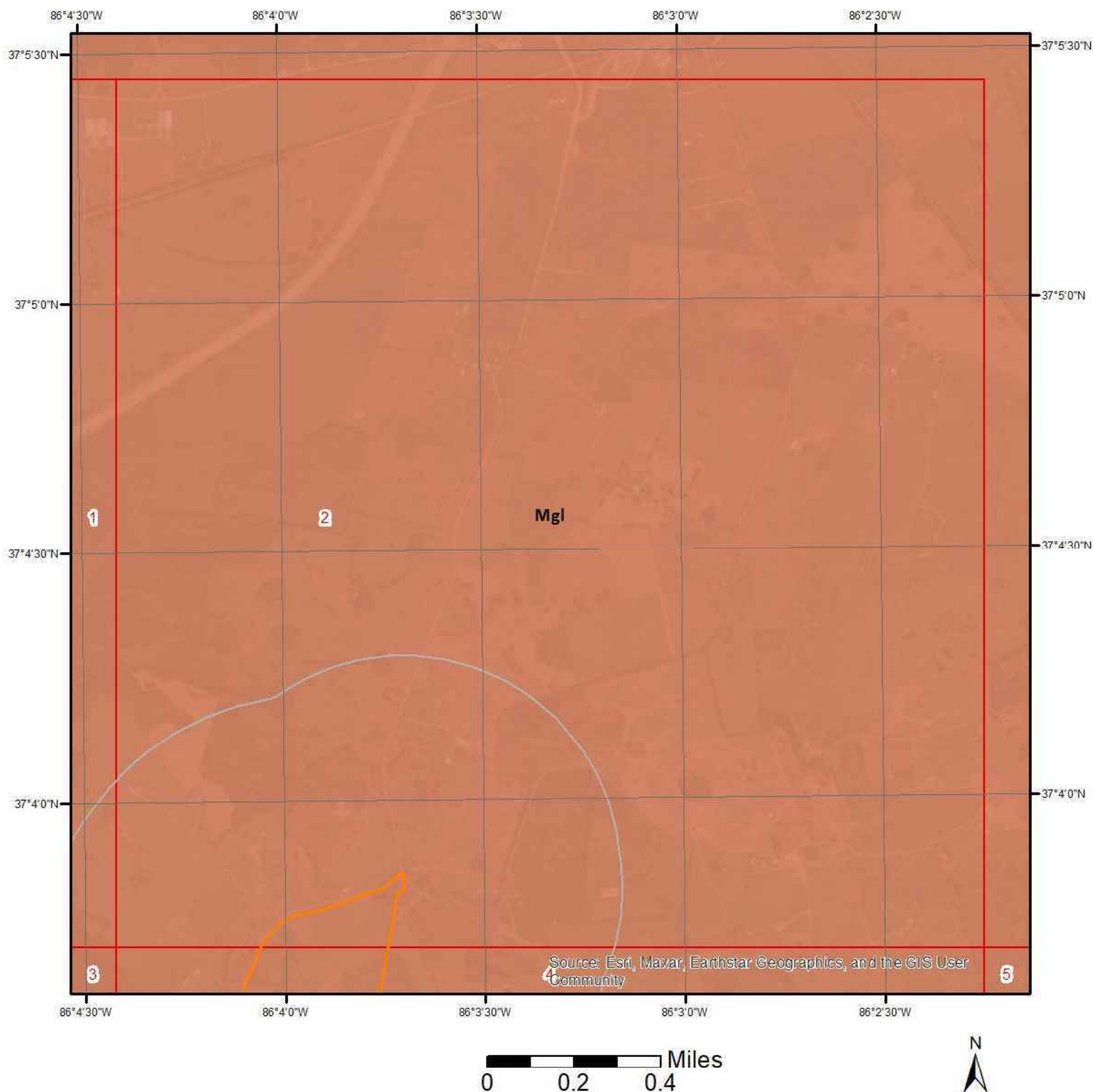


### Geologic Units - Page 1

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



Geologic Information

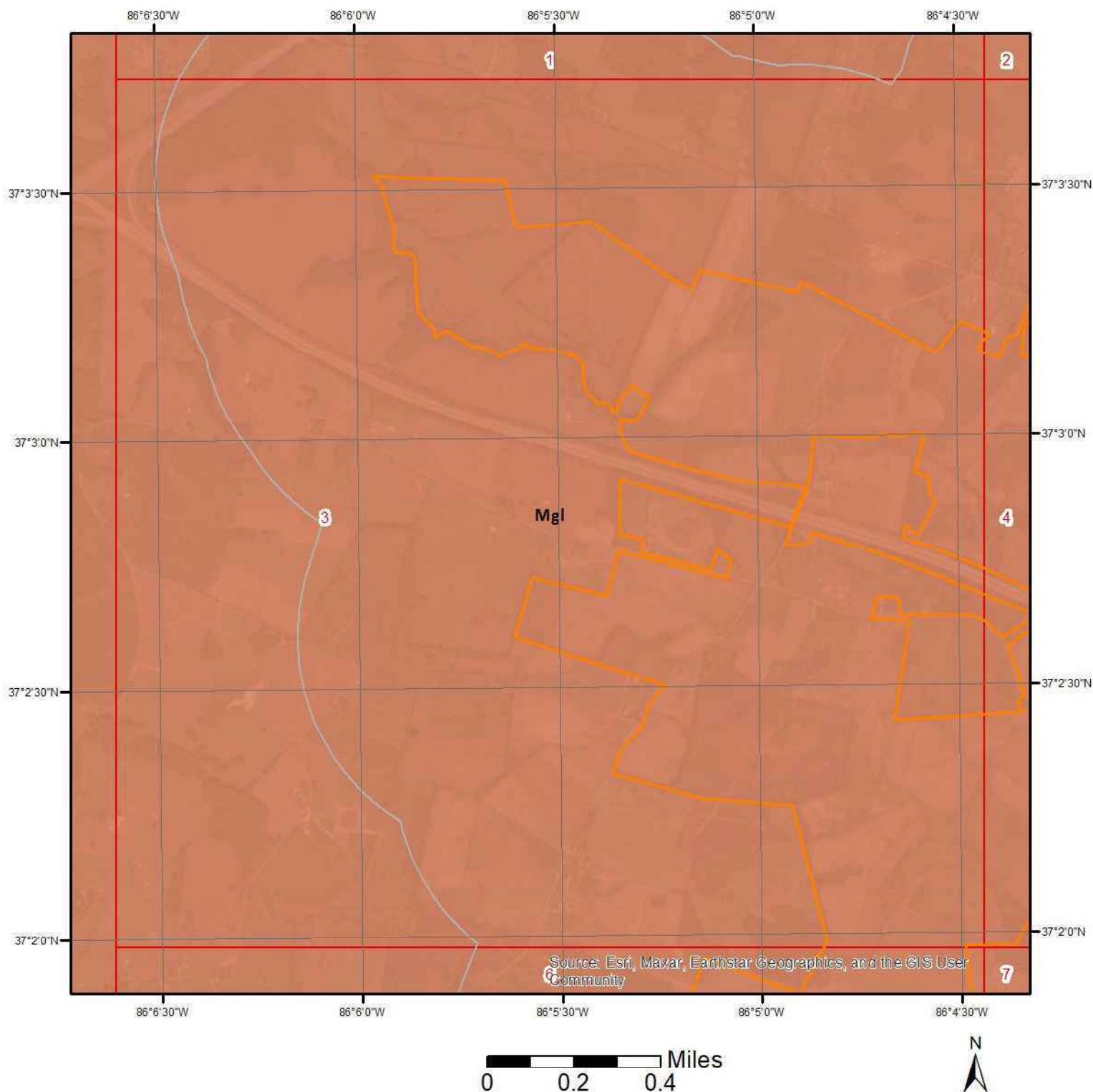


Geologic Units - Page 2

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



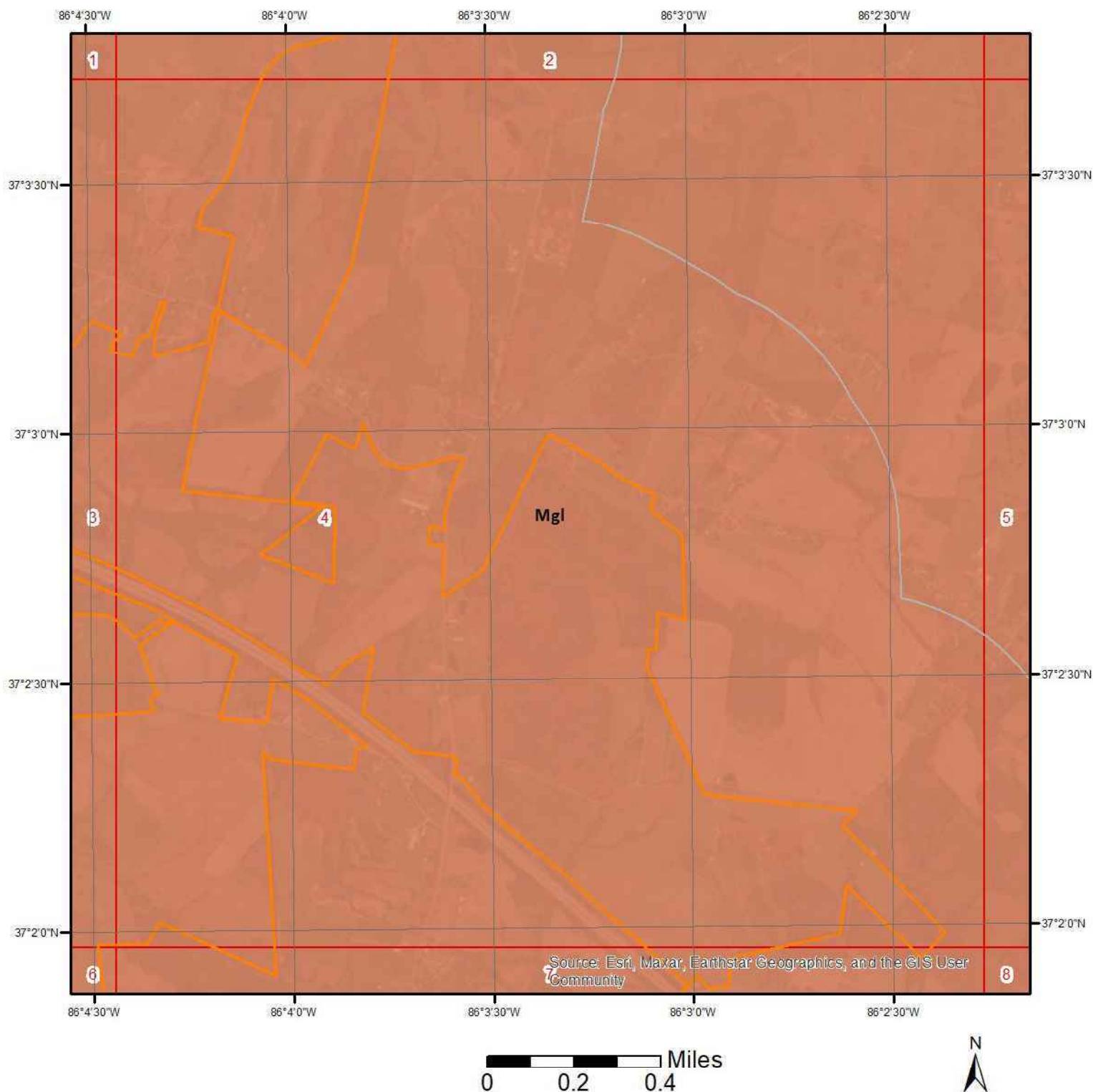




## Geologic Units - Page 3

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



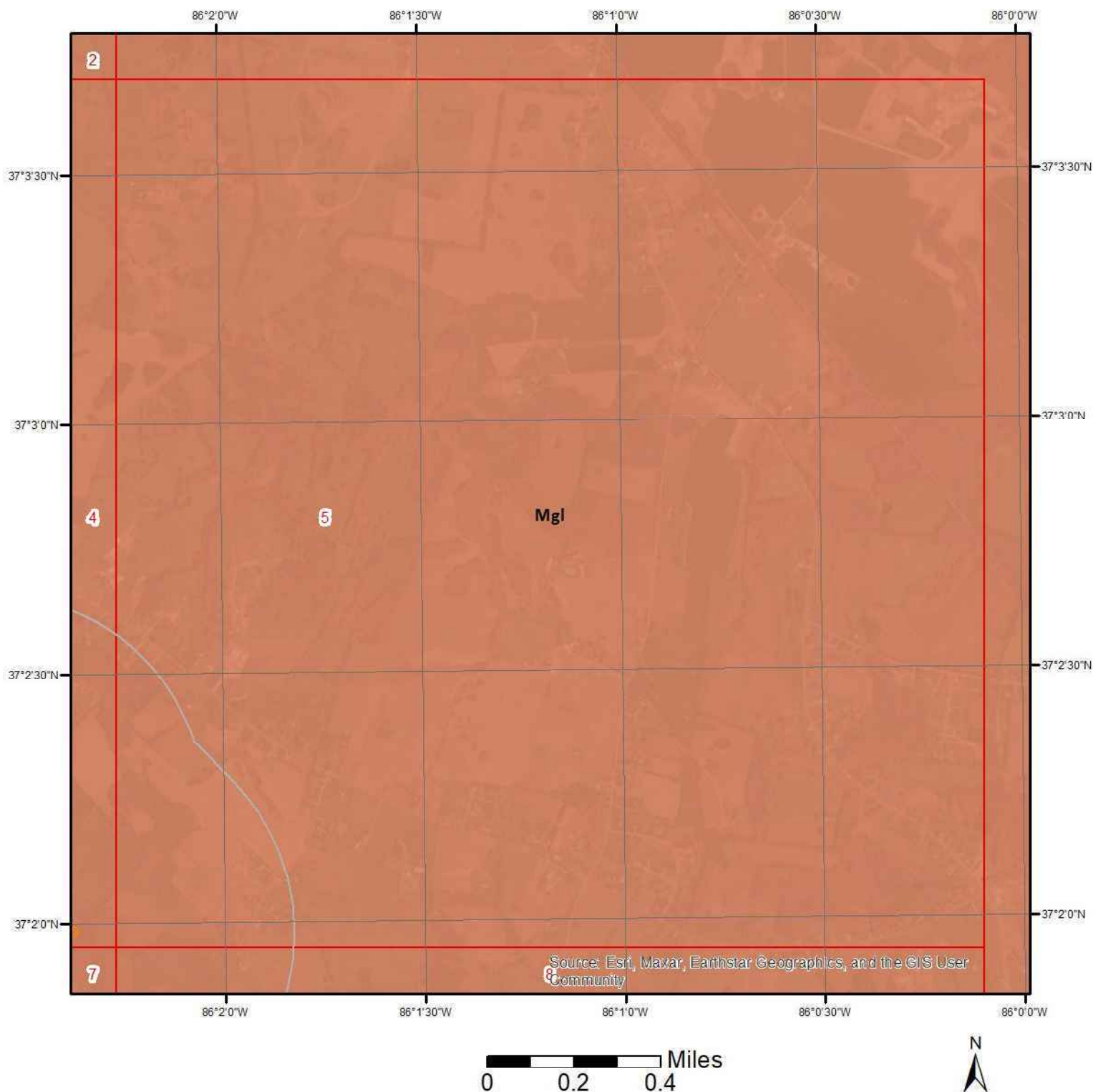


Geologic Units - Page 4

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



Geologic Information



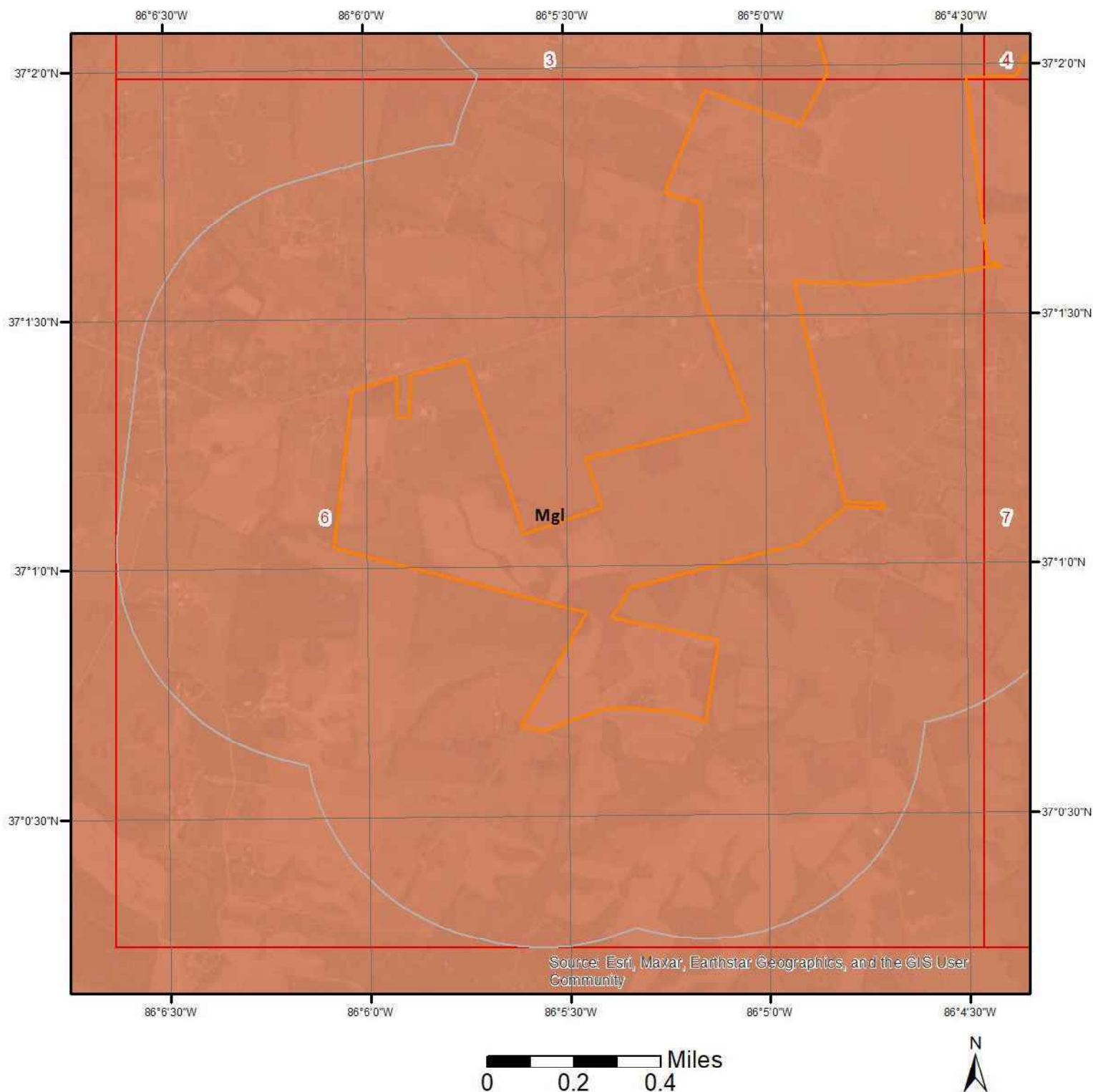
Geologic Units - Page 5

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





Geologic Information

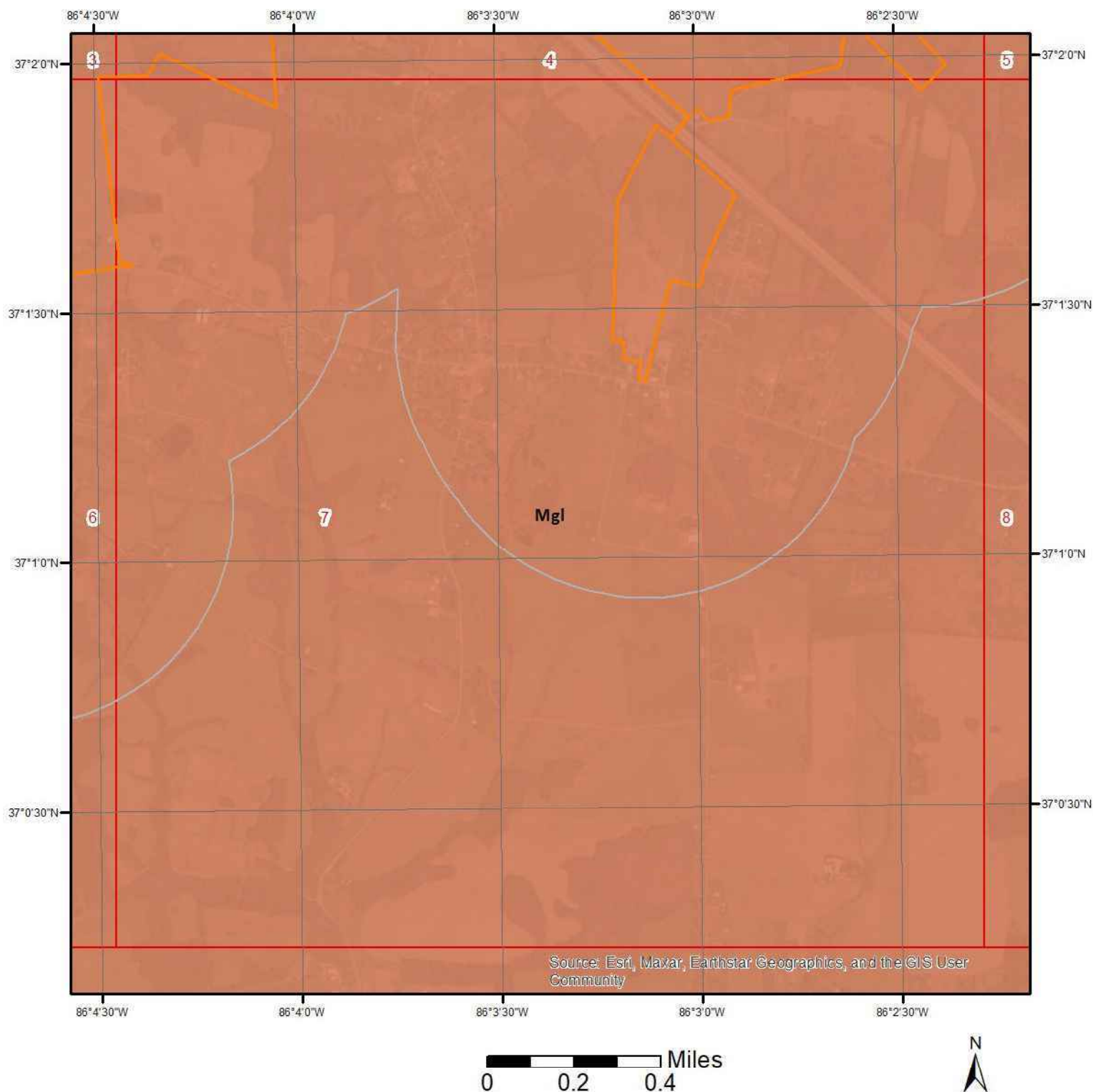


## Geologic Units - Page 6

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



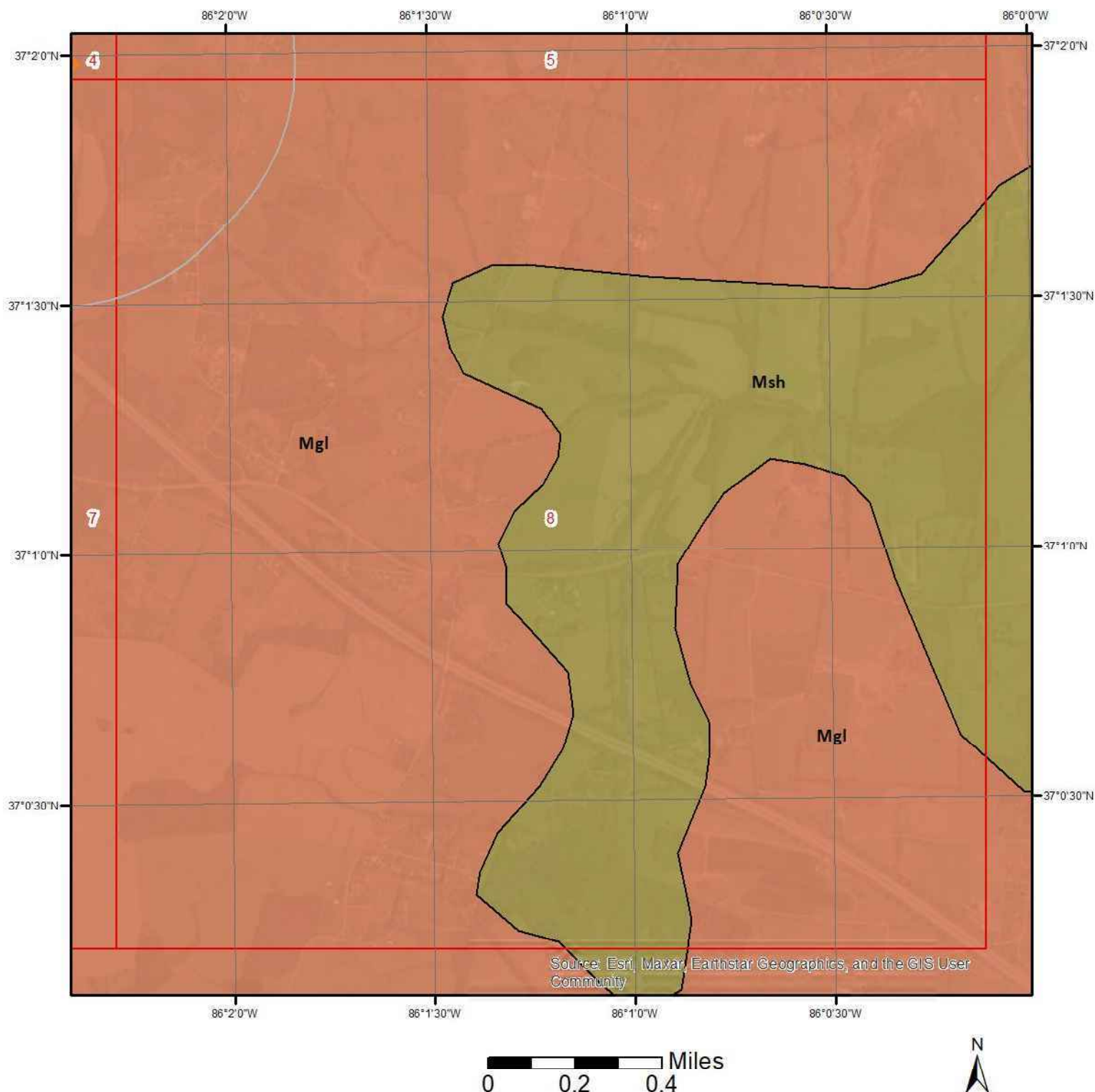
Geologic Information



## Geologic Units - Page 7

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





## Geologic Units - Page 8

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





## Geologic Information

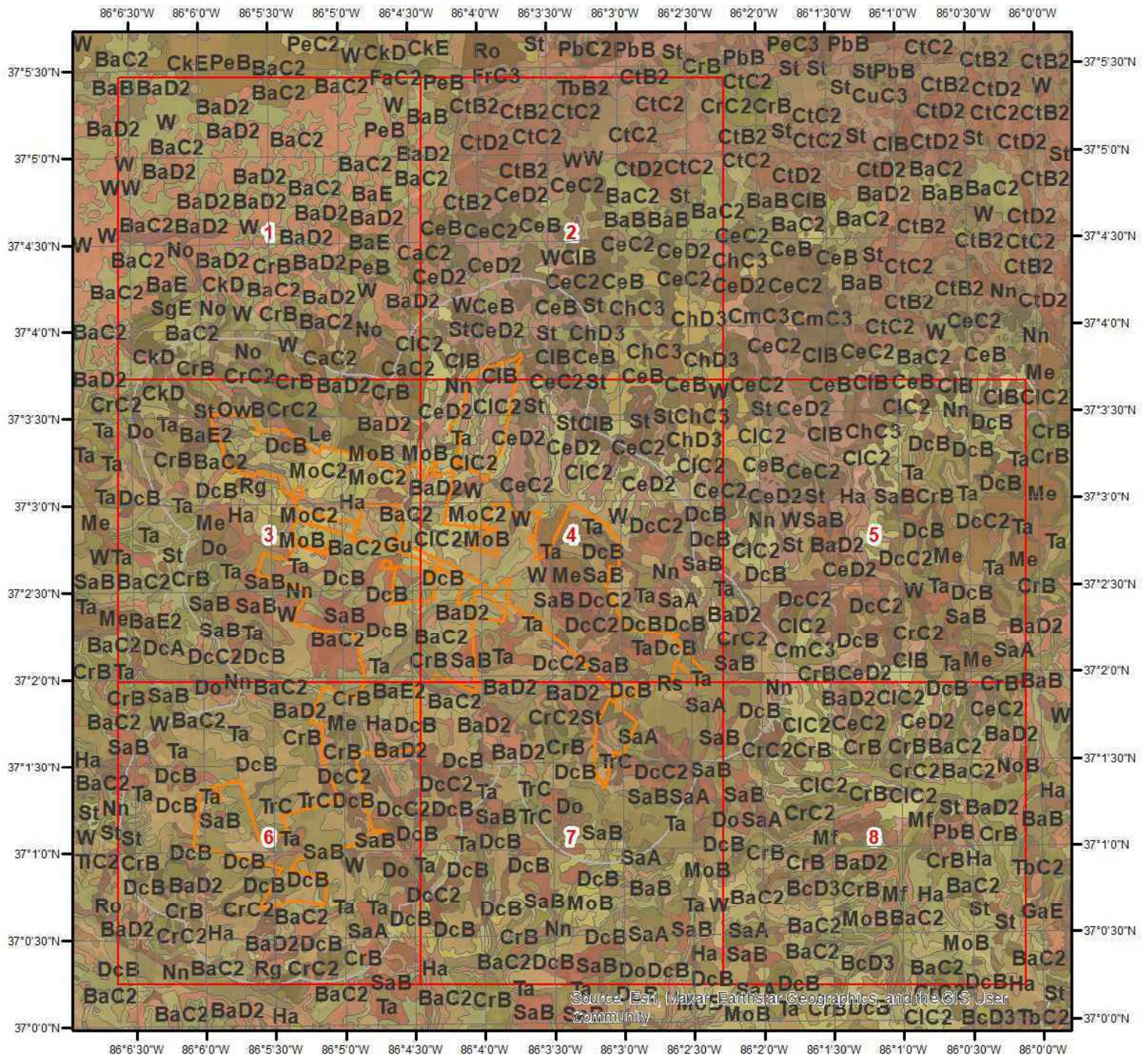
The previous page shows USGS geology information. Detailed information about each unit is provided below.

---

### Geologic Unit Mgl

|                      |   |
|----------------------|---|
| Unit Name:           | Ste. Genevieve and St. Louis Limestones, undivided  |
| Unit Age:            | Mississippian   |
| Primary Rock Type:   | limestone   |
| Secondary Rock Type: | dolostone (dolomite)  |
| Unit Description:    | Ste. Genevieve and St. Louis Limestones, undivided; includes Salem Limestone west of Christian County |

## Soil Information



### SSURGO Soils

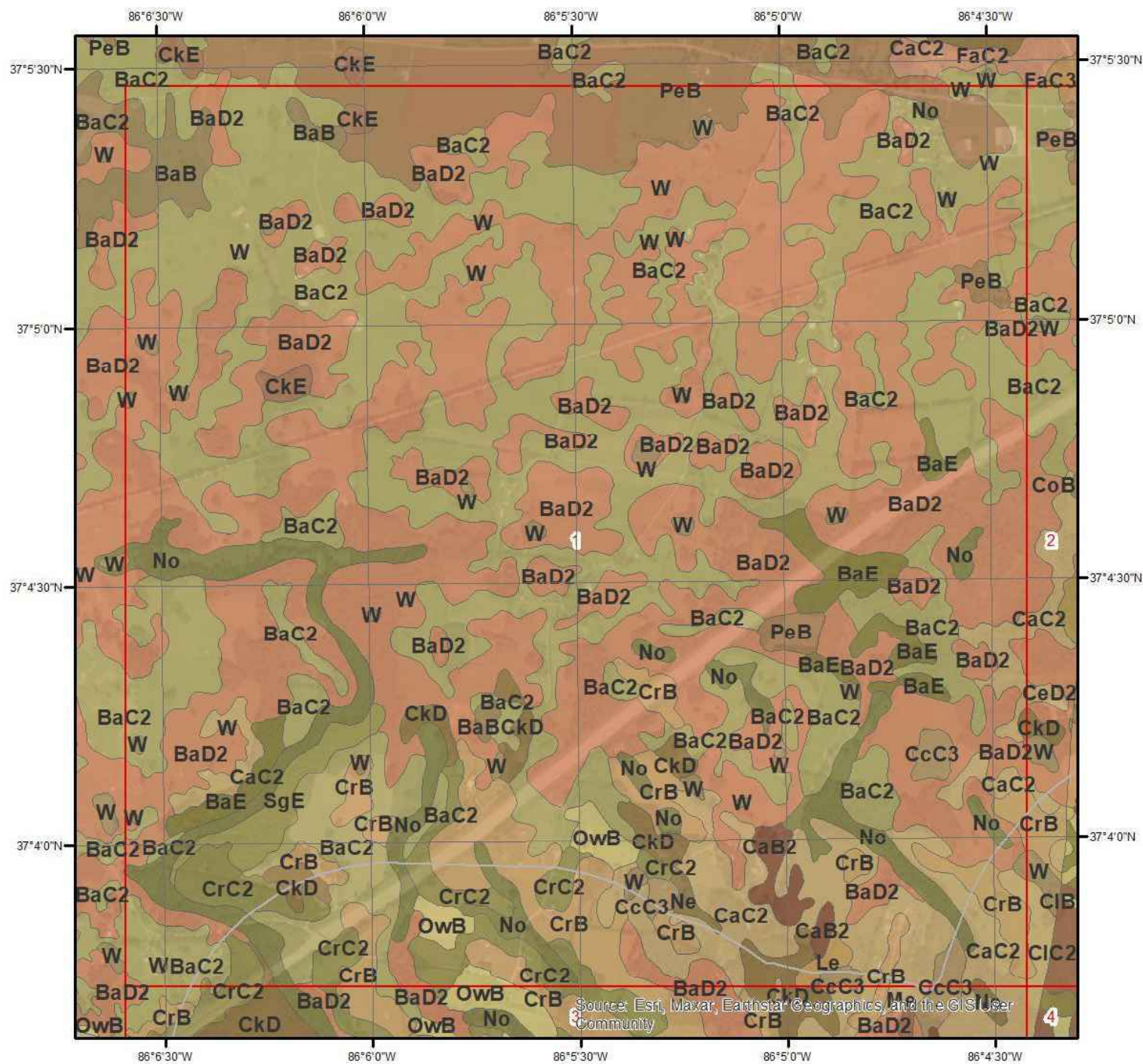


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

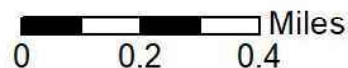




Soil Information



SSURGO Soils - Page 1

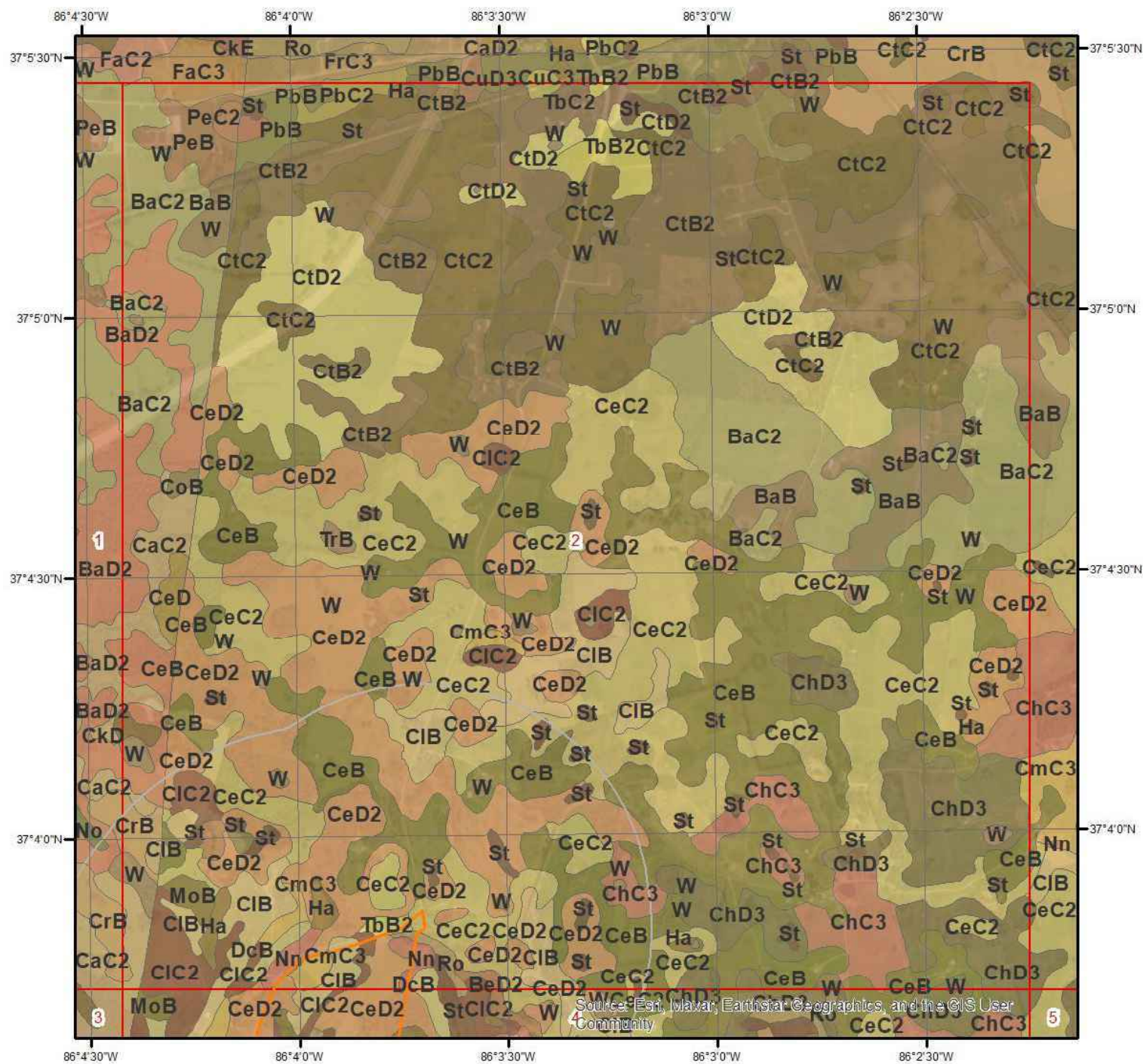


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

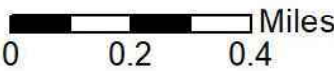




Soil Information



SSURGO Soils - Page 2

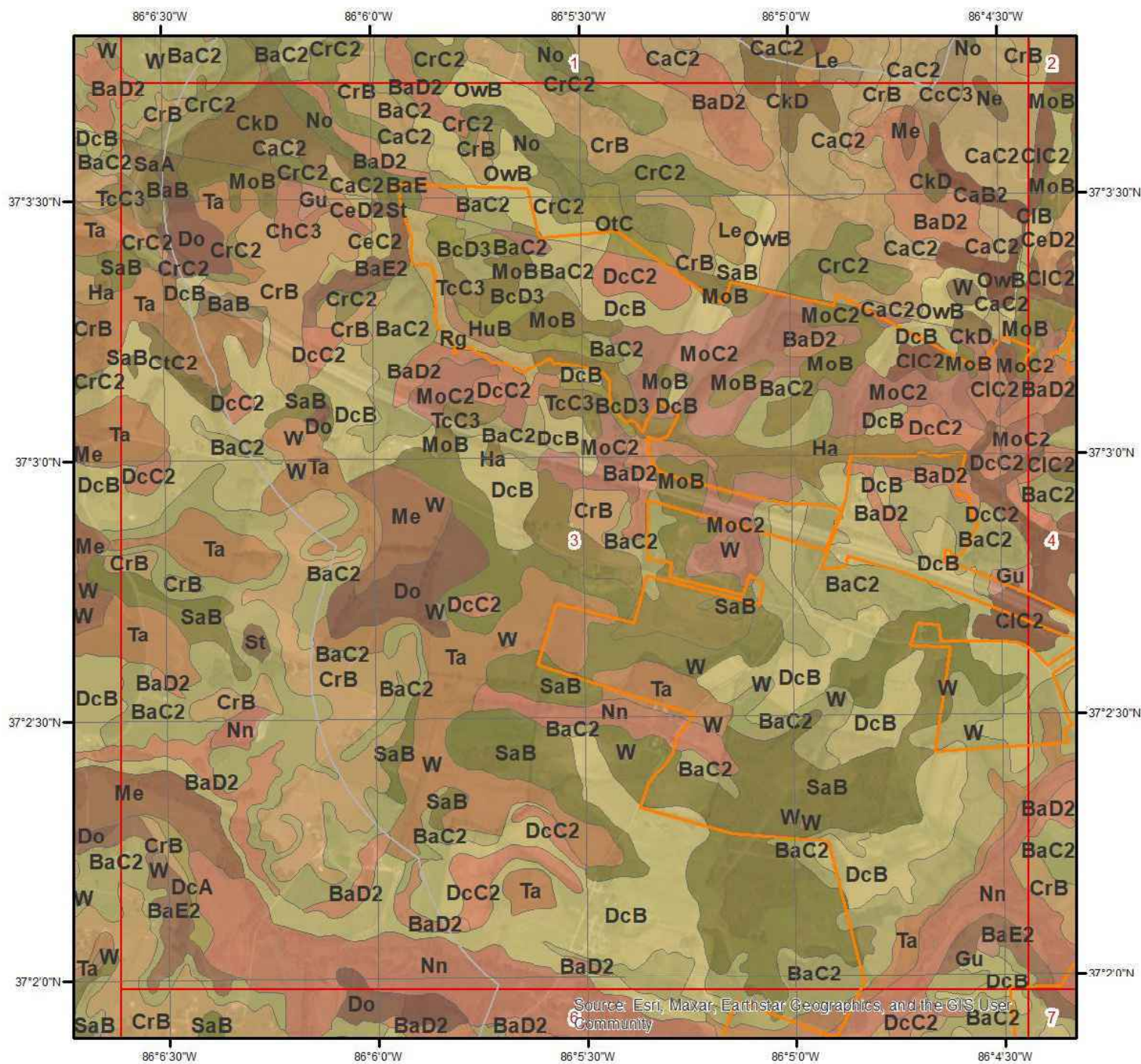


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





## Soil Information



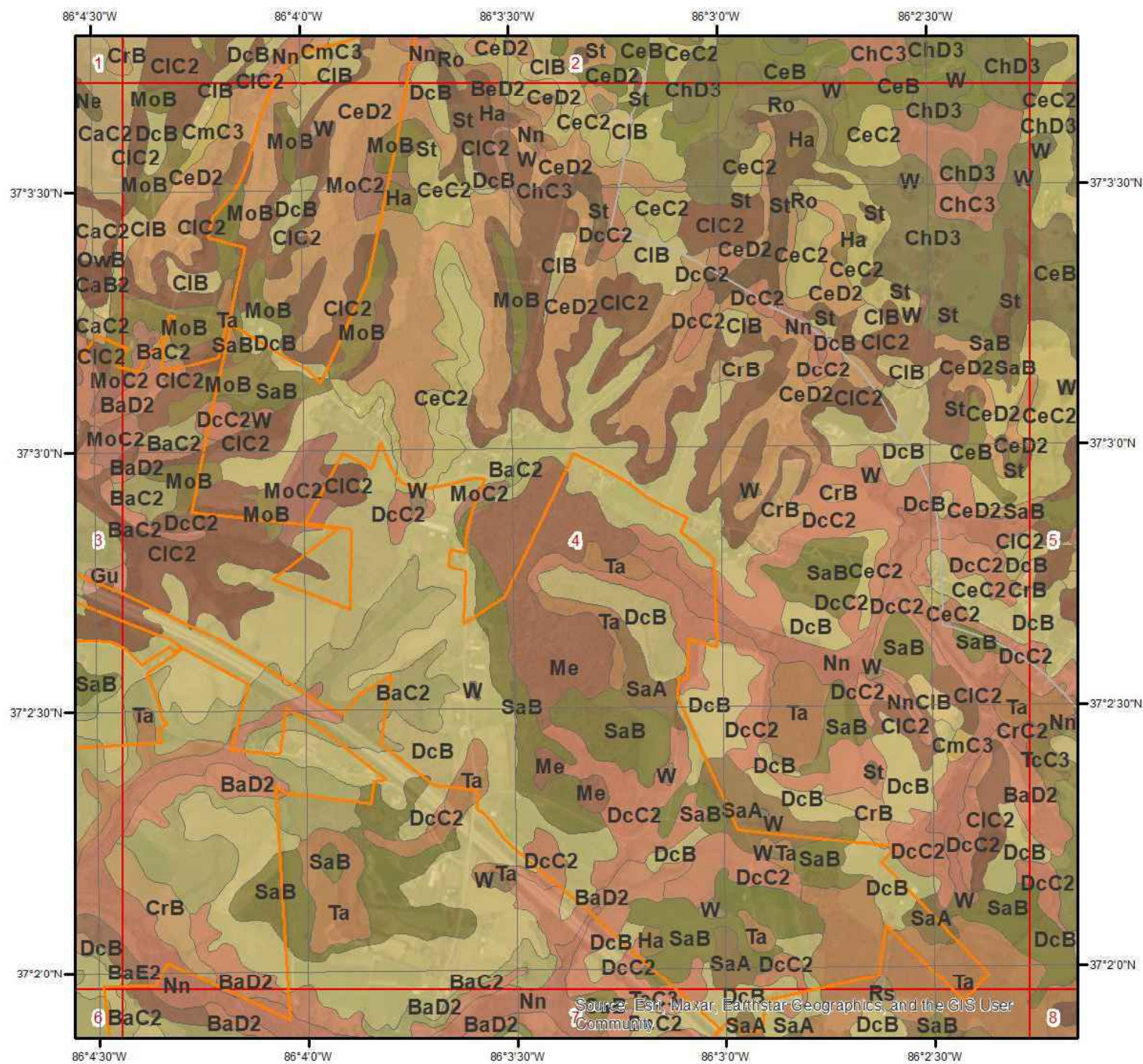
## SSURGO Soils - Page 3

This map shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

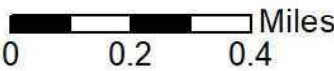




Soil Information



SSURGO Soils - Page 4

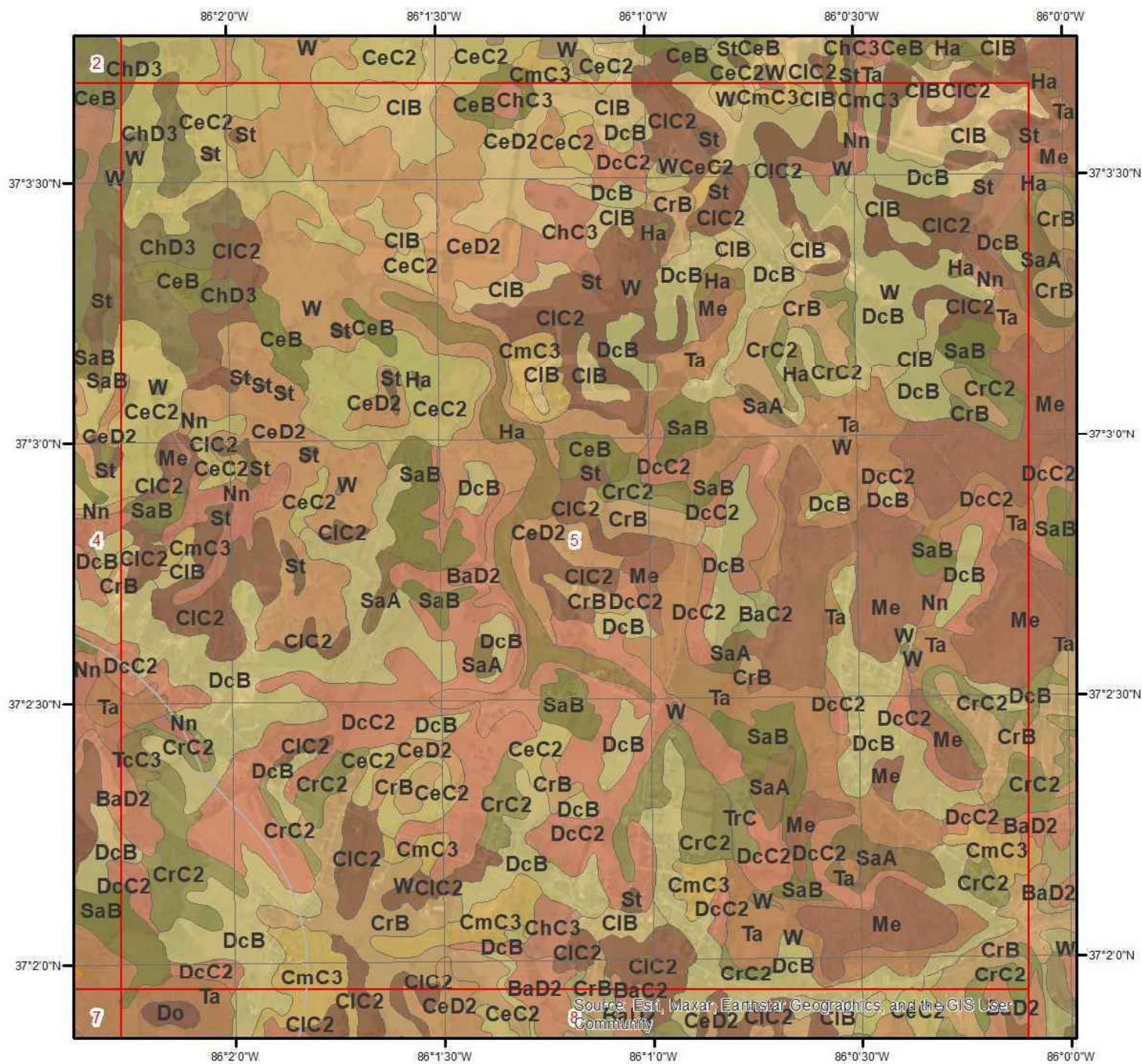


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





## Soil Information



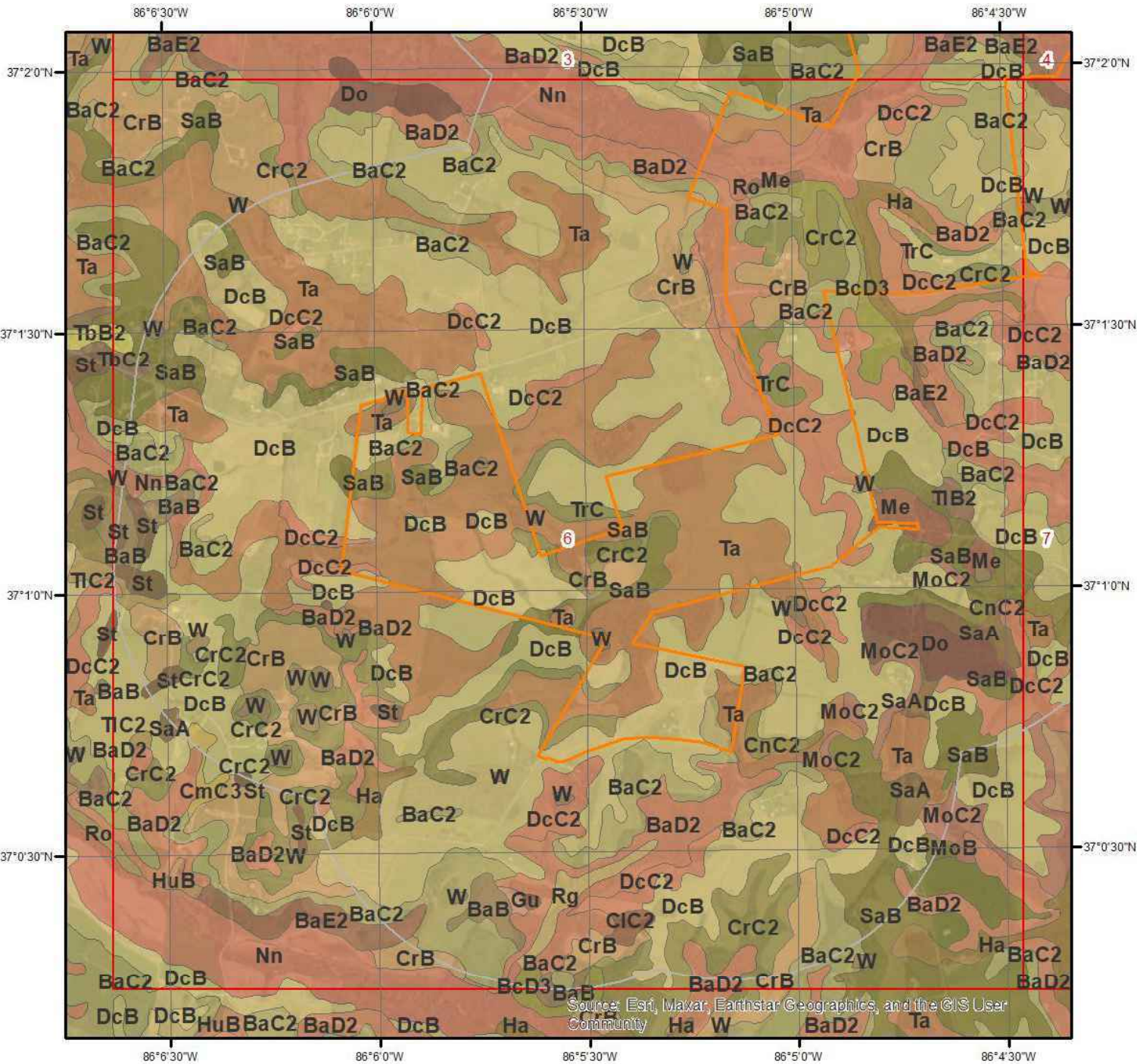
### SSURGO Soils - Page 5

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

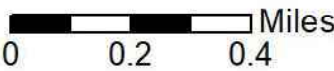




Soil Information



SSURGO Soils - Page 6

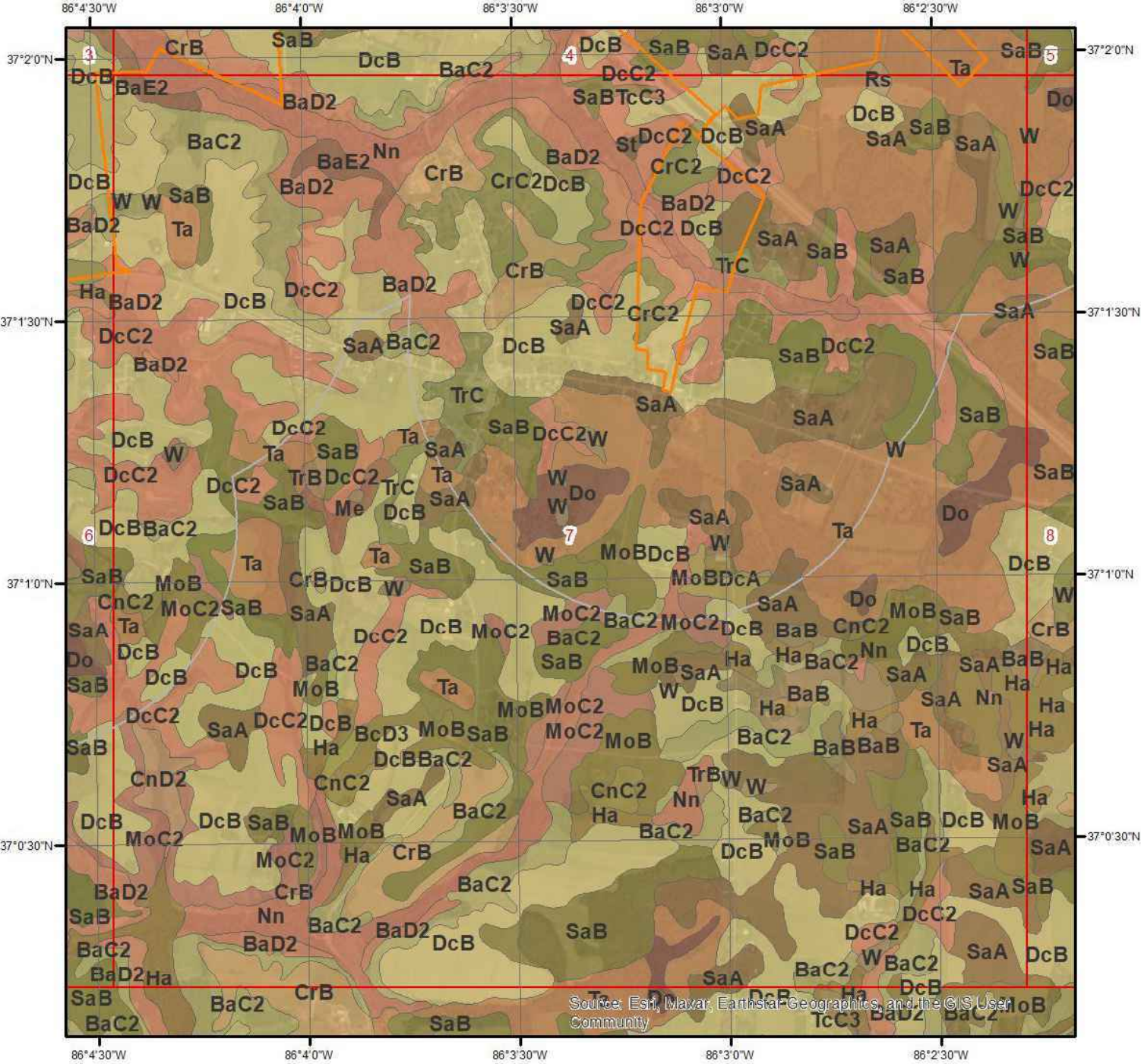


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

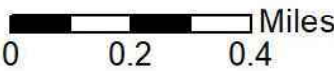




Soil Information



SSURGO Soils - Page 7

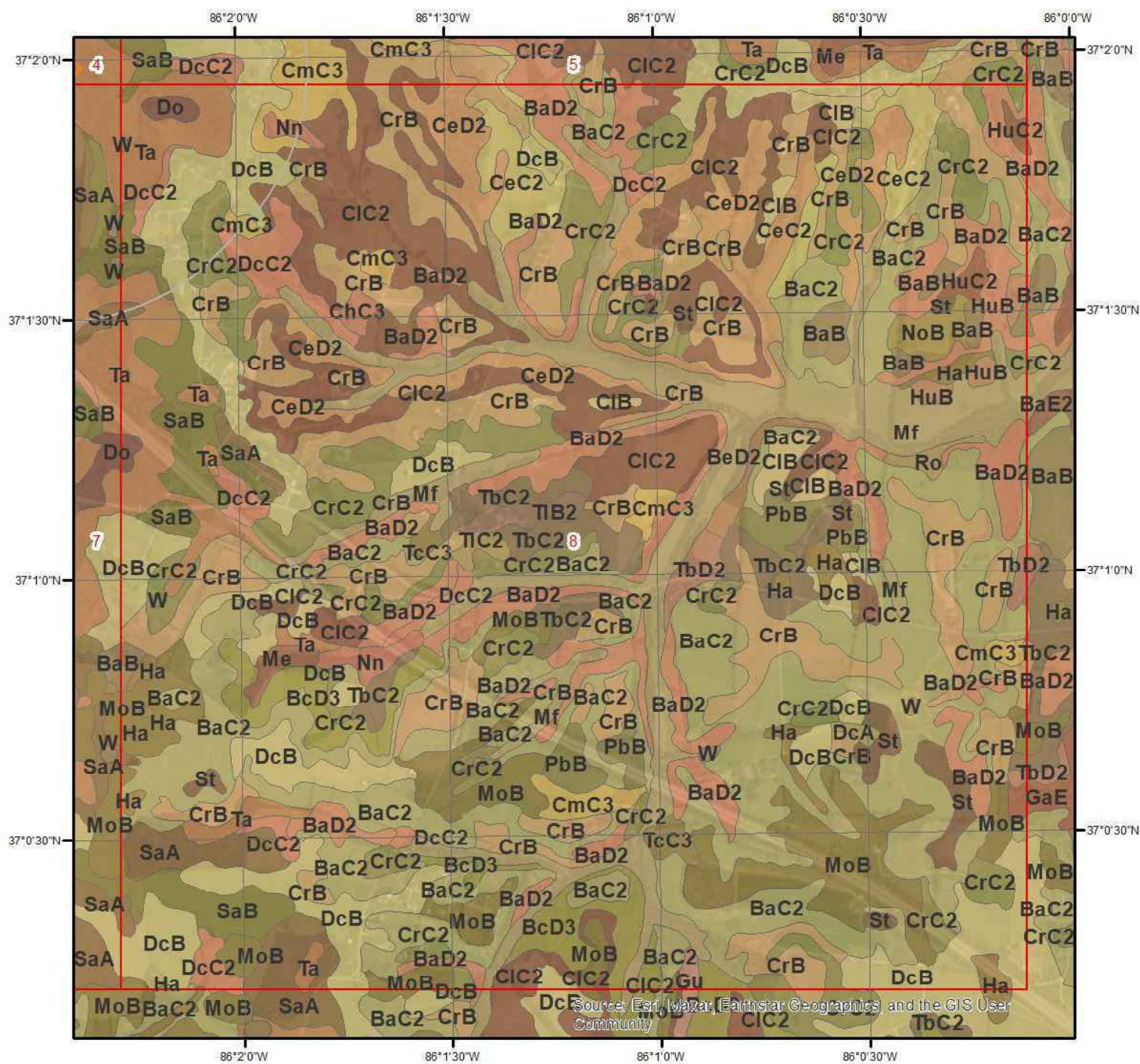


This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





## Soil Information



Source: Esri, Iyaxar, Earthstar Geographics, and the GIS User Community

## SSURGO Soils - Page 8

A scale bar with a black and white alternating pattern. It is labeled with '0', '0.2', and '0.4' below the bar, and 'Miles' to the right of the bar.



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



## Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

---

### Map Unit BaB (0.19%)

|                                    |   |
|------------------------------------|---|
| Map Unit Name:                     | Baxter gravelly silt loam, 2 to 6 percent slopes  |
| Bedrock Depth - Min:               |   |
| Watertable Depth - Annual Min:     |   |
| Drainage Class - Dominant:         | Well drained  |
| Hydrologic Group - Dominant:       | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |
| Major components are printed below |   |
| Baxter(85%)                        |   |
| horizon Ap(0cm to 23cm)            | Gravelly silt loam  |
| horizon Bt1(23cm to 41cm)          | Gravelly silty clay loam  |
| horizon Bt2(41cm to 191cm)         | Gravelly clay   |
| horizon C(191cm to 250cm)          | Gravelly clay   |

#### Component Description:

Minor map unit components are excluded from this report.

Map Unit: BaB - Baxter gravelly silt loam, 2 to 6 percent slopes

#### Component: Baxter (85%)

The Baxter component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

#### Component: Crider (8%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

#### Component: Caneyville (4%)

Generated brief soil descriptions are created for major soil components. The Caneyville soil is a minor component.

#### Component: Vertrees (2%)

Generated brief soil descriptions are created for major soil components. The Vertrees soil is a minor component.

#### Component: Hammack (1%)

Generated brief soil descriptions are created for major soil components. The Hammack soil is a minor component.

---

### Map Unit BaC2 (7.95%)

|                                    |   |
|------------------------------------|---|
| Map Unit Name:                     | Baxter gravelly silt loam, 6 to 12 percent slopes, eroded   |
| Bedrock Depth - Min:               |   |
| Watertable Depth - Annual Min:     |   |
| Drainage Class - Dominant:         | Well drained  |
| Hydrologic Group - Dominant:       | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |
| Major components are printed below |   |
| Baxter(85%)                        |   |
| horizon Ap(0cm to 10cm)            | Gravelly silt loam  |

## Soil Information

|                            |                          |
|----------------------------|--------------------------|
| horizon Bt1(10cm to 25cm)  | Gravelly silty clay loam |
| horizon Bt2(25cm to 178cm) | Gravelly clay            |
| horizon C(178cm to 250cm)  | Gravelly clay            |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: BaC2 - Baxter gravelly silt loam, 6 to 12 percent slopes, eroded

#### Component: Baxter (85%)

The Baxter component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

#### Component: Caneyville (5%)

Generated brief soil descriptions are created for major soil components. The Caneyville soil is a minor component.

#### Component: Crider (5%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

#### Component: Vertrees (3%)

Generated brief soil descriptions are created for major soil components. The Vertrees soil is a minor component.

#### Component: Hammack (2%)

Generated brief soil descriptions are created for major soil components. The Hammack soil is a minor component.

---

### Map Unit BaD2 (11.77%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Baxter gravelly silt loam, 12 to 20 percent slopes, eroded  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

#### Baxter(85%)

|                            |                          |
|----------------------------|--------------------------|
| horizon Ap(0cm to 10cm)    | Gravelly silt loam       |
| horizon Bt1(10cm to 25cm)  | Gravelly silty clay loam |
| horizon Bt2(25cm to 178cm) | Gravelly clay            |
| horizon C(178cm to 250cm)  | Gravelly clay            |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: BaD2 - Baxter gravelly silt loam, 12 to 20 percent slopes, eroded

#### Component: Baxter (85%)

The Baxter component makes up 85 percent of the map unit. Slopes are 12 to 20 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

#### Component: Caneyville (6%)

Generated brief soil descriptions are created for major soil components. The Caneyville soil is a minor component.



## Soil Information

### Component: Crider (4%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

### Component: Vertrees (4%)

Generated brief soil descriptions are created for major soil components. The Vertrees soil is a minor component.

### Component: Hammack (1%)

Generated brief soil descriptions are created for major soil components. The Hammack soil is a minor component.

---

### Map Unit BaE (0.02%)

|                                    |   |
|------------------------------------|---|
| Map Unit Name:                     | Baxter gravelly silt loam, 20 to 30 percent slopes  |
| Bedrock Depth - Min:               |   |
| Watertable Depth - Annual Min:     |   |
| Drainage Class - Dominant:         | Well drained  |
| Hydrologic Group - Dominant:       | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |
| Major components are printed below |   |
| Baxter(88%)                        |   |
| horizon Ap(0cm to 23cm)            | Gravelly silt loam  |
| horizon Bt1(23cm to 41cm)          | Gravelly silty clay loam  |
| horizon Bt2(41cm to 191cm)         | Gravelly clay   |
| horizon C(191cm to 250cm)          | Gravelly clay   |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: BaE - Baxter gravelly silt loam, 20 to 30 percent slopes

### Component: Baxter (88%)

The Baxter component makes up 88 percent of the map unit. Slopes are 20 to 30 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

### Component: Caneyville (5%)

Generated brief soil descriptions are created for major soil components. The Caneyville soil is a minor component.

### Component: Vertrees (5%)

Generated brief soil descriptions are created for major soil components. The Vertrees soil is a minor component.

### Component: Hammack (1%)

Generated brief soil descriptions are created for major soil components. The Hammack soil is a minor component.

### Component: Crider (1%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

---

### Map Unit BaE2 (0.41%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Baxter gravelly silt loam, 20 to 30 percent slopes, eroded  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

## Soil Information

Major components are printed below

Baxter(88%)

|                            |                          |
|----------------------------|--------------------------|
| horizon Ap(0cm to 10cm)    | Gravelly silt loam       |
| horizon Bt1(10cm to 25cm)  | Gravelly silty clay loam |
| horizon Bt2(25cm to 178cm) | Gravelly clay            |
| horizon C(178cm to 250cm)  | Gravelly clay            |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BaE2 - Baxter gravelly silt loam, 20 to 30 percent slopes, eroded

Component: Baxter (88%)

The Baxter component makes up 88 percent of the map unit. Slopes are 20 to 30 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Vertrees (5%)

Generated brief soil descriptions are created for major soil components. The Vertrees soil is a minor component.

Component: Caneyville (5%)

Generated brief soil descriptions are created for major soil components. The Caneyville soil is a minor component.

Component: Crider (1%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

Component: Hammack (1%)

Generated brief soil descriptions are created for major soil components. The Hammack soil is a minor component.

---

### Map Unit BcD3 (0.34%)

Map Unit Name: Baxter cherty silty clay loam, 12 to 20 percent slopes, severely eroded

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Baxter(80%)

|                            |                          |
|----------------------------|--------------------------|
| horizon H1(0cm to 13cm)    | Gravelly silty clay loam |
| horizon H2(13cm to 112cm)  | Gravelly silty clay      |
| horizon H3(112cm to 162cm) | Gravelly clay            |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BcD3 - Baxter cherty silty clay loam, 12 to 20 percent slopes, severely eroded

Component: Baxter (80%)

The Baxter, severely eroded component makes up 80 percent of the map unit. Slopes are 12 to 20 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

## Soil Information

### Component: Vertrees (4%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

### Component: Bodine (4%)

Generated brief soil descriptions are created for major components. The Bodine soil is a minor component.

### Component: Christian (4%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

### Component: Trimble (4%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

### Component: Other soils (4%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit BeD2 (0.07%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Baxter very rocky silt loam, 6 to 20 percent slopes, eroded (caneyville rocky)   |
| Bedrock Depth - Min:           | 76cm   |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

#### Caneyville(80%)

|                          |            |
|--------------------------|------------|
| horizon H1(0cm to 13cm)  | Silt loam  |
| horizon H2(13cm to 64cm) | Silty clay |
| horizon H3(64cm to 76cm) | Clay       |
| horizon R(76cm to 101cm) | Bedrock    |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: BeD2 - Baxter very rocky silt loam, 6 to 20 percent slopes, eroded (caneyville rocky)

### Component: Caneyville (80%)

The Caneyville, rocky component makes up 80 percent of the map unit. Slopes are 6 to 20 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

### Component: Rock outcrop (10%)

Generated brief soil descriptions are created for major components. The Rock outcrop soil is a minor component.

### Component: Other soils (4%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

### Component: Bodine (3%)

Generated brief soil descriptions are created for major components. The Bodine soil is a minor component.

### Component: Fredonia (3%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

---

### Map Unit CaB2 (0.12%)

|                |   |
|----------------|---|
| Map Unit Name: | Caneyville silt loam, 2 to 6 percent slopes, eroded |
|----------------|---|



## Soil Information

|                                |  |
|--------------------------------|--|
| Bedrock Depth - Min:           | 71cm   |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

### Caneyville(85%)

|                          |                     |
|--------------------------|---------------------|
| horizon H1(0cm to 13cm)  | Silt loam           |
| horizon H2(13cm to 53cm) | Silty clay          |
| horizon H3(53cm to 71cm) | Clay                |
| horizon R(71cm to 96cm)  | Unweathered bedrock |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CaB2 - Caneyville silt loam, 2 to 6 percent slopes, eroded

### Component: Caneyville (85%)

The Caneyville component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

### Component: Lenberg (5%)

Generated brief soil descriptions are created for major components. The Lenberg soil is a minor component.

### Component: Fredonia (5%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

### Component: Hagerstown (3%)

Generated brief soil descriptions are created for major components. The Hagerstown soil is a minor component.

### Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

---

### Map Unit CaC2 (1.55%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Caneyville silt loam, 6 to 12 percent slopes, eroded   |
| Bedrock Depth - Min:           | 71cm   |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

### Caneyville(85%)

|                          |                     |
|--------------------------|---------------------|
| horizon H1(0cm to 13cm)  | Silt loam           |
| horizon H2(13cm to 53cm) | Silty clay          |
| horizon H3(53cm to 71cm) | Clay                |
| horizon R(71cm to 96cm)  | Unweathered bedrock |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CaC2 - Caneyville silt loam, 6 to 12 percent slopes, eroded

## Soil Information

### Component: Caneyville (85%)

The Caneyville component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

### Component: Fredonia (5%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

### Component: Lenberg (5%)

Generated brief soil descriptions are created for major components. The Lenberg soil is a minor component.

### Component: Hagerstown (2%)

Generated brief soil descriptions are created for major components. The Hagerstown soil is a minor component.

### Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

### Component: Baxter (1%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

---

### Map Unit CcC3 (0.11%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Caneyville silty clay loam, 6 to 12 percent slopes, severely eroded  |
| Bedrock Depth - Min:           | 71cm   |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

#### Caneyville(85%)

|                          |                     |
|--------------------------|---------------------|
| horizon H1(0cm to 5cm)   | Silty clay loam     |
| horizon H2(5cm to 33cm)  | Silty clay          |
| horizon H3(33cm to 71cm) | Clay                |
| horizon R(71cm to 96cm)  | Unweathered bedrock |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CcC3 - Caneyville silty clay loam, 6 to 12 percent slopes, severely eroded

### Component: Caneyville (85%)

The Caneyville, severely eroded component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

### Component: Fredonia (5%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

### Component: Lenberg (5%)

Generated brief soil descriptions are created for major components. The Lenberg soil is a minor component.

### Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

## Soil Information

Component: Hagerstown (2%)

Generated brief soil descriptions are created for major components. The Hagerstown soil is a minor component.

Component: Baxter (1%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

---

### Map Unit CeB (2.21%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Christian cherty loam, 2 to 6 percent slopes  |
| Bedrock Depth - Min:           | 165cm   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

Christian(95%)

|                            |                          |
|----------------------------|--------------------------|
| horizon H1(0cm to 15cm)    | Gravelly loam            |
| horizon H2(15cm to 33cm)   | Gravelly sandy clay loam |
| horizon H3(33cm to 114cm)  | Gravelly clay loam       |
| horizon H4(114cm to 165cm) | Gravelly clay            |
| horizon R(165cm to 190cm)  | Bedrock                  |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CeB - Christian cherty loam, 2 to 6 percent slopes

Component: Christian (95%)

The Christian component makes up 95 percent of the map unit. Slopes are 2 to 6 percent. This component is on broad ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Baxter (1%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Caneyville (1%)

Generated brief soil descriptions are created for major components. The Caneyville soil is a minor component.

Component: Vertrees (1%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

Component: Trimble (1%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit CeC2 (1.96%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Christian cherty loam, 6 to 12 percent slopes, eroded |
| Bedrock Depth - Min:           | 160cm   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |



## Soil Information

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Christian(90%)

horizon H1(0cm to 10cm)

Gravelly loam

horizon H2(10cm to 33cm)

Gravelly sandy clay loam

horizon H3(33cm to 114cm)

Gravelly clay loam

horizon H4(114cm to 160cm)

Gravelly clay

horizon R(160cm to 185cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CeC2 - Christian cherty loam, 6 to 12 percent slopes, eroded

Component: Christian (90%)

The Christian component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Baxter (2%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Caneyville (2%)

Generated brief soil descriptions are created for major components. The Caneyville soil is a minor component.

Component: Vertrees (2%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

Component: Trimble (1%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

---

### Map Unit CeD2 (3.61%)

Map Unit Name:

Christian cherty loam, 12 to 20 percent slopes, eroded

Bedrock Depth - Min:

160cm

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Well drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Christian(85%)

horizon H1(0cm to 10cm)

Gravelly loam

horizon H2(10cm to 33cm)

Gravelly sandy clay loam

horizon H3(33cm to 114cm)

Gravelly clay loam

horizon H4(114cm to 160cm)

Gravelly clay

horizon R(160cm to 185cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.

## Soil Information

Map Unit: CeD2 - Christian cherty loam, 12 to 20 percent slopes, eroded

Component: Christian (85%)

The Christian component makes up 85 percent of the map unit. Slopes are 12 to 20 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Baxter (4%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Vertrees (3%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

Component: Baxter (3%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Caneyville (3%)

Generated brief soil descriptions are created for major components. The Caneyville soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Trimble (1%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

---

### Map Unit ChC3 (0.14%)

Map Unit Name: Christian cherty sandy clay loam, 6 to 12 percent slopes, severely eroded

Bedrock Depth - Min: 152cm

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Christian(90%)

horizon H1(0cm to 18cm) Gravelly sandy clay loam

horizon H2(18cm to 124cm) Gravelly clay loam

horizon H3(124cm to 152cm) Gravelly clay

horizon R(152cm to 177cm) Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: ChC3 - Christian cherty sandy clay loam, 6 to 12 percent slopes, severely eroded

Component: Christian (90%)

The Christian, severely eroded component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

## Soil Information

### Component: Baxter (2%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

### Component: Vertrees (2%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

### Component: Caneyville (2%)

Generated brief soil descriptions are created for major components. The Caneyville soil is a minor component.

### Component: Trimble (1%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

---

### Map Unit CkD (0.42%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Caneyville-Rock outcrop complex, 6 to 20 percent slopes  |
| Bedrock Depth - Min:           | 71cm   |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

#### Caneyville(65%)

|                          |                     |
|--------------------------|---------------------|
| horizon H1(0cm to 13cm)  | Silt loam           |
| horizon H2(13cm to 53cm) | Silty clay          |
| horizon H3(53cm to 71cm) | Clay                |
| horizon R(71cm to 96cm)  | Unweathered bedrock |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CkD - Caneyville-Rock outcrop complex, 6 to 20 percent slopes

### Component: Caneyville (65%)

The Caneyville component makes up 65 percent of the map unit. Slopes are 6 to 20 percent. This component is on hills on karst uplands. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

### Component: Rock outcrop (10%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

### Component: Fredonia (5%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

### Component: Wallen (5%)

Generated brief soil descriptions are created for major components. The Wallen soil is a minor component.

### Component: Hagerstown (5%)

Generated brief soil descriptions are created for major components. The Hagerstown soil is a minor component.

### Component: Donahue (5%)

Generated brief soil descriptions are created for major components. The Donahue soil is a minor component.

### Component: Bledsoe (5%)

Generated brief soil descriptions are created for major components. The Bledsoe soil is a minor component.



## Soil Information

### Map Unit CIB (0.93%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Christian silt loam, 2 to 6 percent slopes  |
| Bedrock Depth - Min:           | 165cm   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

#### Christian(90%)

|                            |            |
|----------------------------|------------|
| horizon H1(0cm to 36cm)    | Silt loam  |
| horizon H2(36cm to 86cm)   | Silty clay |
| horizon H3(86cm to 117cm)  | Clay loam  |
| horizon H4(117cm to 165cm) | Clay loam  |
| horizon R(165cm to 190cm)  | Bedrock    |

#### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CIB - Christian silt loam, 2 to 6 percent slopes

#### Component: Christian (90%)

The Christian component makes up 90 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

#### Component: Baxter (2%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

#### Component: Crider (2%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

#### Component: Other soils (2%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

#### Component: Vertrees (2%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

---

### Map Unit CIC2 (3.55%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Christian silt loam, 6 to 12 percent slopes, eroded   |
| Bedrock Depth - Min:           | 160cm   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

#### Christian(85%)

|                            |            |
|----------------------------|------------|
| horizon H1(0cm to 30cm)    | Silt loam  |
| horizon H2(30cm to 81cm)   | Silty clay |
| horizon H3(81cm to 112cm)  | Clay loam  |
| horizon H4(112cm to 160cm) | Clay loam  |

## Soil Information

horizon R(160cm to 185cm)

Bedrock

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CIC2 - Christian silt loam, 6 to 12 percent slopes, eroded

#### Component: Christian (85%)

The Christian component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

#### Component: Baxter (3%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

#### Component: Crider (3%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

#### Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Vertrees (3%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

#### Component: Pembroke (3%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

---

### Map Unit CmC3 (0.34%)

Map Unit Name: Christian silty clay loam, 6 to 12 percent slopes, severely eroded

Bedrock Depth - Min: 152cm

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

#### Christian(85%)

horizon H1(0cm to 5cm) Silty clay loam

horizon H2(5cm to 104cm) Silty clay

horizon H3(104cm to 152cm) Clay loam

horizon R(152cm to 177cm) Bedrock

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CmC3 - Christian silty clay loam, 6 to 12 percent slopes, severely eroded

#### Component: Christian (85%)

The Christian, severely eroded component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone, sandstone, and shale and/or siltstone. Depth to a root restrictive layer, bedrock, lithic, is 48 to 84 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

## Soil Information

### Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

### Component: Vertrees (3%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

### Component: Pembroke (3%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

### Component: Crider (3%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

### Component: Baxter (3%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

---

### Map Unit CnC2 (0.06%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Clarksville cherty silt loam, 6 to 12 percent slopes, eroded (trimble)  |
| Bedrock Depth - Min:           | 119cm   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

#### Trimble(90%)

|                           |                               |
|---------------------------|-------------------------------|
| horizon H1(0cm to 30cm)   | Gravelly silt loam            |
| horizon H2(30cm to 61cm)  | Gravelly silt loam            |
| horizon H3(61cm to 119cm) | Very gravelly silty clay loam |
| horizon R(119cm to 144cm) | Bedrock                       |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: CnC2 - Clarksville cherty silt loam, 6 to 12 percent slopes, eroded (trimble)

### Component: Trimble (90%)

The Trimble component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of fine-loamy residuum weathered from cherty limestone. Depth to a root restrictive layer, bedrock, lithic, is 30 to 65 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

### Component: Other soils (4%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

### Component: Bodine (2%)

Generated brief soil descriptions are created for major components. The Bodine soil is a minor component.

### Component: Christian (2%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

### Component: Baxter (2%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

---

### Map Unit CrB (5.22%)

|                |   |
|----------------|---|
| Map Unit Name: | Crider silt loam, 2 to 6 percent slopes |
|----------------|---|



## Soil Information

Bedrock Depth - Min: 254cm  
Watertable Depth - Annual Min:  
Drainage Class - Dominant: Well drained  
Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Crider(88%)

|                             |           |
|-----------------------------|-----------|
| horizon Ap(0cm to 20cm)     | Silt loam |
| horizon Bt1(20cm to 97cm)   | Silt loam |
| horizon 2Bt2(97cm to 254cm) | Clay      |
| horizon 2R(254cm to 279cm)  | Bedrock   |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CrB - Crider silt loam, 2 to 6 percent slopes

Component: Crider (88%)

The Crider component makes up 88 percent of the map unit. Slopes are 2 to 6 percent. This component is on broad ridges on karst uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 59 to 157 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Baxter (5%)

Generated brief soil descriptions are created for major soil components. The Baxter soil is a minor component.

Component: Bedford (4%)

Generated brief soil descriptions are created for major soil components. The Bedford soil is a minor component.

Component: Pembroke (3%)

Generated brief soil descriptions are created for major soil components. The Pembroke soil is a minor component.

---

### Map Unit CrC2 (3.08%)

Map Unit Name: Crider silt loam, 6 to 12 percent slopes, eroded  
Bedrock Depth - Min: 254cm  
Watertable Depth - Annual Min:  
Drainage Class - Dominant: Well drained  
Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Crider(85%)

|                             |           |
|-----------------------------|-----------|
| horizon Ap(0cm to 13cm)     | Silt loam |
| horizon Bt1(13cm to 97cm)   | Silt loam |
| horizon 2Bt2(97cm to 254cm) | Clay      |
| horizon 2R(254cm to 279cm)  | Bedrock   |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CrC2 - Crider silt loam, 6 to 12 percent slopes, eroded

Component: Crider (85%)

The Crider component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on broad ridges on karst

## Soil Information

uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 59 to 157 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Baxter (7%)

Generated brief soil descriptions are created for major soil components. The Baxter soil is a minor component.

Component: Bedford (3%)

Generated brief soil descriptions are created for major soil components. The Bedford soil is a minor component.

Component: Pembroke (3%)

Generated brief soil descriptions are created for major soil components. The Pembroke soil is a minor component.

Component: Nolin (2%)

Generated brief soil descriptions are created for major soil components. The Nolin, occasionally flooded soil is a minor component.

---

### Map Unit CtC2 (0.05%)

Map Unit Name: Cumberland cherty silt loam, 6 to 12 percent slopes, eroded (baxter)

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Baxter(90%)

|                           |                          |
|---------------------------|--------------------------|
| horizon H1(0cm to 10cm)   | Gravelly silt loam       |
| horizon H2(10cm to 23cm)  | Gravelly silty clay loam |
| horizon H3(23cm to 84cm)  | Gravelly silty clay      |
| horizon H4(84cm to 168cm) | Gravelly clay            |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CtC2 - Cumberland cherty silt loam, 6 to 12 percent slopes, eroded (baxter)

Component: Baxter (90%)

The Baxter component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on karst uplands. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Pembroke (3%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

Component: Christian (3%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

Component: Other soils (2%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Vertrees (2%)

Generated brief soil descriptions are created for major components. The Vertrees soil is a minor component.

## Soil Information

### Map Unit DcA (0.05%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Dickson silt loam, 0 to 2 percent slopes   |
| Bedrock Depth - Min:           | 183cm  |
| Watertable Depth - Annual Min: | 66cm   |
| Drainage Class - Dominant:     | Moderately well drained  |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

#### Dickson(95%)

|                           |                 |
|---------------------------|-----------------|
| horizon H1(0cm to 20cm)   | Silt loam       |
| horizon H2(20cm to 71cm)  | Silt loam       |
| horizon H3(71cm to 91cm)  | Silt loam       |
| horizon H4(91cm to 183cm) | Silty clay loam |
| horizon R(183cm to 208cm) | Bedrock         |

#### Component Description:

Minor map unit components are excluded from this report.

Map Unit: DcA - Dickson silt loam, 0 to 2 percent slopes

#### Component: Dickson (95%)

The Dickson component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 18 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 26 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

#### Component: Sango (1%)

Generated brief soil descriptions are created for major components. The Sango soil is a minor component.

#### Component: Mountview (1%)

Generated brief soil descriptions are created for major components. The Mountview soil is a minor component.

#### Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Crider (1%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

#### Component: Taft (1%)

Generated brief soil descriptions are created for major components. The Taft soil is a minor component.

---

### Map Unit DcB (18.18%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Dickson silt loam, 2 to 6 percent slopes   |
| Bedrock Depth - Min:           | 183cm  |
| Watertable Depth - Annual Min: | 66cm   |
| Drainage Class - Dominant:     | Moderately well drained  |
| Hydrologic Group - Dominant:   | C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted. |

Major components are printed below

#### Dickson(90%)

|                          |           |
|--------------------------|-----------|
| horizon H1(0cm to 20cm)  | Silt loam |
| horizon H2(20cm to 71cm) | Silt loam |
| horizon H3(71cm to 91cm) | Silt loam |



## Soil Information

horizon H4(91cm to 183cm)  
horizon R(183cm to 208cm)

Silty clay loam  
Bedrock

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: DcB - Dickson silt loam, 2 to 6 percent slopes

#### Component: Dickson (90%)

The Dickson component makes up 90 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 18 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 26 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

#### Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Sango (3%)

Generated brief soil descriptions are created for major components. The Sango soil is a minor component.

#### Component: Crider (2%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

#### Component: Mountview (2%)

Generated brief soil descriptions are created for major components. The Mountview soil is a minor component.

---

### Map Unit DcC2 (6.04%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Dickson silt loam, 6 to 12 percent slopes, eroded  |
| Bedrock Depth - Min:           | 175cm  |
| Watertable Depth - Annual Min: | 58cm   |
| Drainage Class - Dominant:     | Moderately well drained  |
| Hydrologic Group - Dominant:   | C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

#### Dickson(90%)

|                           |                 |
|---------------------------|-----------------|
| horizon H1(0cm to 13cm)   | Silt loam       |
| horizon H2(13cm to 64cm)  | Silt loam       |
| horizon H3(64cm to 84cm)  | Silt loam       |
| horizon H4(84cm to 175cm) | Silty clay loam |
| horizon R(175cm to 200cm) | Bedrock         |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: DcC2 - Dickson silt loam, 6 to 12 percent slopes, eroded

#### Component: Dickson (90%)

The Dickson component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 18 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

## Soil Information

### Component: Sango (3%)

Generated brief soil descriptions are created for major components. The Sango soil is a minor component.

### Component: Other soils (3%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

### Component: Crider (2%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

### Component: Mountview (2%)

Generated brief soil descriptions are created for major components. The Mountview soil is a minor component.

---

### Map Unit Do (0.65%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Dowellton silt loam  |
| Bedrock Depth - Min:           | 122cm  |
| Watertable Depth - Annual Min: | 0cm  |
| Drainage Class - Dominant:     | Poorly drained   |
| Hydrologic Group - Dominant:   | C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

#### Dowellton(95%)

|                           |            |
|---------------------------|------------|
| horizon H1(0cm to 46cm)   | Silt loam  |
| horizon H2(46cm to 61cm)  | Silty clay |
| horizon H3(61cm to 122cm) | Clay       |
| horizon R(122cm to 147cm) | Bedrock    |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Do - Dowellton silt loam

### Component: Dowellton (95%)

The Dowellton, ponded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on uplands. The parent material consists of old clayey alluvium over limestone. Depth to a root restrictive layer, bedrock, lithic, is 40 to 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

### Component: Newark (2%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

### Component: Melvin (2%)

Generated brief soil descriptions are created for major components. The Melvin soil is a minor component.

### Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit Gu (0.06%)

|  |              |
|--|--------------|
| Map Unit Name:                                 | Gullied land |
| No more attributes available for this map unit |              |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Gu - Gullied land

## Soil Information

Component: Gullied land (100%)

Generated brief soil descriptions are created for major soil components. The Gullied land is a miscellaneous area.

### Map Unit Ha (0.6%)

Map Unit Name: Hamblen silt loam

Bedrock Depth - Min:

Watertable Depth - Annual Min: 56cm

Drainage Class - Dominant: Moderately well drained

Hydrologic Group - Dominant: B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Hamblen(95%)

horizon H1(0cm to 25cm) Silt loam

horizon H2(25cm to 86cm) Silt loam

horizon H3(86cm to 152cm) Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ha - Hamblen silt loam

Component: Hamblen (95%)

The Hamblen, occasionally flooded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on basin in closed depressions on karst uplands. The parent material consists of fine-loamy residuum weathered from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 22 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Lindside (1%)

Generated brief soil descriptions are created for major components. The Lindside soil is a minor component.

Component: Newark (1%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

Component: Dickson (1%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

Component: Morganfield (1%)

Generated brief soil descriptions are created for major components. The Morganfield soil is a minor component.

### Map Unit HuB (0.02%)

Map Unit Name: Humphreys cherty silt loam, 2 to 6 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Humphreys(95%)

horizon H1(0cm to 20cm) Gravelly silt loam



## Soil Information

horizon H2(20cm to 81cm)  
horizon H3(81cm to 162cm)

Gravelly silty clay loam  
Stratified gravelly silt loam

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: HuB - Humphreys cherty silt loam, 2 to 6 percent slopes

#### Component: Humphreys (95%)

The Humphreys, rarely flooded component makes up 95 percent of the map unit. Slopes are 2 to 6 percent. This component is on stream terraces on valleys. The parent material consists of fine-loamy alluvium and/or colluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is rarely flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

#### Component: Trimble (1%)

Generated brief soil descriptions are created for major components. The Trimble soil is a minor component.

#### Component: Dickson (1%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

#### Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Tarklin (1%)

Generated brief soil descriptions are created for major components. The Tarklin soil is a minor component.

#### Component: Baxter (1%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

---

### Map Unit Le (0.09%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Lawrence silt loam, occasionally flooded   |
| Bedrock Depth - Min:           |  |
| Watertable Depth - Annual Min: | 36cm   |
| Drainage Class - Dominant:     | Somewhat poorly drained  |
| Hydrologic Group - Dominant:   | C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

#### Lawrence(85%)

|                            |                 |
|----------------------------|-----------------|
| horizon H1(0cm to 15cm)    | Silt loam       |
| horizon H2(15cm to 61cm)   | Silt loam       |
| horizon H3(61cm to 124cm)  | Silt loam       |
| horizon H4(124cm to 193cm) | Silty clay loam |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Le - Lawrence silt loam, occasionally flooded

#### Component: Lawrence (85%)

The Lawrence, occasionally flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on stream terraces on river valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer, fragipan, is 18 to 32 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 14 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

## Soil Information

### Component: Otwell (7%)

Generated brief soil descriptions are created for major components. The Otwell soil is a minor component.

### Component: Melvin (2%)

Generated brief soil descriptions are created for major soil components. The Melvin, frequently flooded soil is a minor component.

### Component: Nolin (2%)

Generated brief soil descriptions are created for major components. The Nolin soil is a minor component.

### Component: Elk (2%)

Generated brief soil descriptions are created for major components. The Elk soil is a minor component.

### Component: Newark (2%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

---

### Map Unit Me (0.86%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Melvin silt loam, frequently flooded  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: | 15cm  |
| Drainage Class - Dominant:     | Poorly drained  |
| Hydrologic Group - Dominant:   | B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

#### Melvin(85%)

|                           |           |
|---------------------------|-----------|
| horizon H1(0cm to 20cm)   | Silt loam |
| horizon H2(20cm to 96cm)  | Silt loam |
| horizon H3(96cm to 165cm) | Silt loam |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Me - Melvin silt loam, frequently flooded

### Component: Melvin (85%)

The Melvin, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on river valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

### Component: Nolin (5%)

Generated brief soil descriptions are created for major components. The Nolin soil is a minor component.

### Component: Chagrin (5%)

Generated brief soil descriptions are created for major components. The Chagrin soil is a minor component.

### Component: Newark (5%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

---

### Map Unit MoB (1.82%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Mountview silt loam, 2 to 6 percent slopes |
| Bedrock Depth - Min:           | 168cm                                      |
| Watertable Depth - Annual Min: |  |
| Drainage Class - Dominant:     | Well drained                               |

## Soil Information

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Mountview(90%)

horizon H1(0cm to 20cm)

Silt loam

horizon H2(20cm to 81cm)

Silt loam

horizon H3(81cm to 168cm)

Silty clay loam

horizon R(168cm to 193cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MoB - Mountview silt loam, 2 to 6 percent slopes

Component: Mountview (90%)

The Mountview component makes up 90 percent of the map unit. Slopes are 2 to 6 percent. This component is on broad ridges on uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from cherty limestone. Depth to a root restrictive layer, bedrock, lithic, is 40 to 96 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Dickson (3%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

Component: Crider (2%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

Component: Riney (1%)

Generated brief soil descriptions are created for major components. The Riney soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Sango (1%)

Generated brief soil descriptions are created for major components. The Sango soil is a minor component.

---

### Map Unit MoC2 (1.56%)

Map Unit Name:

Mountview silt loam, 6 to 12 percent slopes, eroded

Bedrock Depth - Min:

160cm

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Well drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Mountview(90%)

horizon H1(0cm to 13cm)

Silt loam

horizon H2(13cm to 74cm)

Silt loam

horizon H3(74cm to 160cm)

Silty clay loam

horizon R(160cm to 185cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.



## Soil Information

Map Unit: MoC2 - Mountview silt loam, 6 to 12 percent slopes, eroded

Component: Mountview (90%)

The Mountview component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from cherty limestone. Depth to a root restrictive layer, bedrock, lithic, is 40 to 96 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Dickson (3%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

Component: Pembroke (2%)

Generated brief soil descriptions are created for major components. The Pembroke soil is a minor component.

Component: Crider (2%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

Component: Sango (1%)

Generated brief soil descriptions are created for major components. The Sango soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Riney (1%)

Generated brief soil descriptions are created for major components. The Riney soil is a minor component.

---

### Map Unit Ne (0.05%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Newark silt loam, frequently flooded  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: | 31cm  |
| Drainage Class - Dominant:     | Somewhat poorly drained   |
| Hydrologic Group - Dominant:   | B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

Newark(85%)

|                           |           |
|---------------------------|-----------|
| horizon H1(0cm to 41cm)   | Silt loam |
| horizon H2(41cm to 81cm)  | Silt loam |
| horizon H3(81cm to 160cm) | Silt loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ne - Newark silt loam, frequently flooded

Component: Newark (85%)

The Newark, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on river valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Component: Lawrence (3%)

Generated brief soil descriptions are created for major components. The Lawrence soil is a minor component.

## Soil Information

### Component: Melvin (3%)

Generated brief soil descriptions are created for major soil components. The Melvin, frequently flooded soil is a minor component.

### Component: Otwell (3%)

Generated brief soil descriptions are created for major components. The Otwell soil is a minor component.

### Component: Nolin (3%)

Generated brief soil descriptions are created for major components. The Nolin soil is a minor component.

### Component: Grigsby (2%)

Generated brief soil descriptions are created for major components. The Grigsby soil is a minor component.

### Component: Chagrin (1%)

Generated brief soil descriptions are created for major components. The Chagrin soil is a minor component.

---

### Map Unit Nn (4.37%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Newark silt loam  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: | 33cm  |
| Drainage Class - Dominant:     | Somewhat poorly drained   |
| Hydrologic Group - Dominant:   | B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

#### Newark(95%)

|                           |           |
|---------------------------|-----------|
| horizon H1(0cm to 23cm)   | Silt loam |
| horizon H2(23cm to 56cm)  | Silt loam |
| horizon H3(56cm to 157cm) | Silt loam |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Nn - Newark silt loam

### Component: Newark (95%)

The Newark, occasionally flooded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 13 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

### Component: Melvin (3%)

Generated brief soil descriptions are created for major components. The Melvin soil is a minor component.

### Component: Other soils (2%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit No (0.99%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Nolin silt loam, 0 to 2 percent slopes, frequently flooded  |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

## Soil Information

Major components are printed below

Nolin(85%)

|                           |           |
|---------------------------|-----------|
| horizon Ap(0cm to 20cm)   | Silt loam |
| horizon Bw(20cm to 157cm) | Silt loam |
| horizon C(157cm to 203cm) | Silt loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: No - Nolin silt loam, 0 to 2 percent slopes, frequently flooded

Component: Nolin (85%)

The Nolin, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Lindside (10%)

Generated brief soil descriptions are created for major soil components. The Lindside, frequently flooded soil is a minor component.

Component: Nolin (3%)

Generated brief soil descriptions are created for major soil components. The Nolin, frequent(hydric) soil is a minor component.

Component: Newark (1%)

Generated brief soil descriptions are created for major soil components. The Newark, frequently flooded soil is a minor component.

Component: Huntington (1%)

Generated brief soil descriptions are created for major soil components. The Huntington, frequently flooded soil is a minor component.

---

### Map Unit OtC (0.09%)

Map Unit Name: Otwell silt loam, 6 to 12 percent slopes, rarely flooded

Bedrock Depth - Min:

Watertable Depth - Annual Min: 51cm

Drainage Class - Dominant: Moderately well drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Otwell(85%)

|                            |                 |
|----------------------------|-----------------|
| horizon H1(0cm to 18cm)    | Silt loam       |
| horizon H2(18cm to 66cm)   | Silt loam       |
| horizon H3(66cm to 107cm)  | Silty clay loam |
| horizon H4(107cm to 173cm) | Silt loam       |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: OtC - Otwell silt loam, 6 to 12 percent slopes, rarely flooded

Component: Otwell (85%)

The Otwell, rarely flooded component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on stream terraces on river valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer, fragipan, is 20 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 20 inches during January, February, March, April. Organic matter content in the



## Soil Information

surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Clarkrange (3%)

Generated brief soil descriptions are created for major components. The Clarkrange soil is a minor component.

Component: Sciotoville (3%)

Generated brief soil descriptions are created for major components. The Sciotoville soil is a minor component.

Component: Elk (3%)

Generated brief soil descriptions are created for major components. The Elk soil is a minor component.

Component: Allegheny (2%)

Generated brief soil descriptions are created for major components. The Allegheny soil is a minor component.

Component: Gilpin (2%)

Generated brief soil descriptions are created for major components. The Gilpin soil is a minor component.

Component: Wellston (2%)

Generated brief soil descriptions are created for major components. The Wellston soil is a minor component.

---

### Map Unit OwB (0.47%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Otwell silt loam, 2 to 6 percent slopes, occasionally flooded  |
| Bedrock Depth - Min:           |  |
| Watertable Depth - Annual Min: | 51cm   |
| Drainage Class - Dominant:     | Moderately well drained  |
| Hydrologic Group - Dominant:   | C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained. |

Major components are printed below

Otwell(85%)

|                            |                 |
|----------------------------|-----------------|
| horizon H1(0cm to 18cm)    | Silt loam       |
| horizon H2(18cm to 66cm)   | Silt loam       |
| horizon H3(66cm to 107cm)  | Silty clay loam |
| horizon H4(107cm to 173cm) | Silt loam       |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: OwB - Otwell silt loam, 2 to 6 percent slopes, occasionally flooded

Component: Otwell (85%)

The Otwell, occasionally flooded component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on stream terraces on river valleys. The parent material consists of mixed fine-silty alluvium. Depth to a root restrictive layer, fragipan, is 20 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 20 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Lawrence (3%)

Generated brief soil descriptions are created for major components. The Lawrence soil is a minor component.

Component: Elk (3%)

Generated brief soil descriptions are created for major components. The Elk soil is a minor component.

Component: Sciotoville (3%)

Generated brief soil descriptions are created for major components. The Sciotoville soil is a minor component.

Component: Gilpin (2%)

Generated brief soil descriptions are created for major components. The Gilpin soil is a minor component.

## Soil Information

Component: Wellston (2%)

Generated brief soil descriptions are created for major components. The Wellston soil is a minor component.

Component: Allegheny (2%)

Generated brief soil descriptions are created for major components. The Allegheny soil is a minor component.

---

### Map Unit PbB (0.01%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Pembroke silt loam, 2 to 6 percent slopes   |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: |   |
| Drainage Class - Dominant:     | Well drained  |
| Hydrologic Group - Dominant:   | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

|                              |                 |
|------------------------------|-----------------|
| Pembroke(90%)                |                 |
| horizon Ap(0cm to 23cm)      | Silt loam       |
| horizon Bt1(23cm to 46cm)    | Silt loam       |
| horizon 2Bt2(46cm to 157cm)  | Silty clay loam |
| horizon 2Bt3(157cm to 200cm) | Silty clay      |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: PbB - Pembroke silt loam, 2 to 6 percent slopes

Component: Pembroke (90%)

The Pembroke component makes up 90 percent of the map unit. Slopes are 2 to 6 percent. This component is on broad ridges on karst uplands. The parent material consists of thin fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Crider (5%)

Generated brief soil descriptions are created for major soil components. The Crider soil is a minor component.

Component: Bedford (4%)

Generated brief soil descriptions are created for major soil components. The Bedford soil is a minor component.

Component: Nolin (1%)

Generated brief soil descriptions are created for major soil components. The Nolin, occasionally flooded soil is a minor component.

Component: Baxter (0%)

Generated brief soil descriptions are created for major soil components. The Baxter soil is a minor component.

---

### Map Unit Rg (0.17%)

|                                |  |
|--------------------------------|--|
| Map Unit Name:                 | Robinsonville gravelly silt loam (sensabaugh)  |
| Bedrock Depth - Min:           |  |
| Watertable Depth - Annual Min: | 152cm  |
| Drainage Class - Dominant:     | Well drained   |
| Hydrologic Group - Dominant:   | A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil. |

Major components are printed below

Sensabaugh(95%)

## Soil Information

|                           |                    |
|---------------------------|--------------------|
| horizon H1(0cm to 18cm)   | Gravelly silt loam |
| horizon H2(18cm to 58cm)  | Gravelly silt loam |
| horizon H3(58cm to 96cm)  | Gravelly silt loam |
| horizon H4(96cm to 157cm) | Gravelly loam      |

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Rg - Robinsonville gravelly silt loam (sensabaugh)

#### Component: Sensabaugh (95%)

The Sensabaugh, occasionally flooded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of fine-loamy alluvium derived from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria.

#### Component: Morganfield (2%)

Generated brief soil descriptions are created for major components. The Morganfield soil is a minor component.

#### Component: Hamblen (1%)

Generated brief soil descriptions are created for major components. The Hamblen soil is a minor component.

#### Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Staser (1%)

Generated brief soil descriptions are created for major components. The Staser soil is a minor component.

---

### Map Unit Ro (0.03%)

Map Unit Name: Rock land

No more attributes available for this map unit

### Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ro - Rock land

#### Component: Rock land (90%)

Generated brief soil descriptions are created for major soil components. The Rock land is a miscellaneous area.

#### Component: Other soils (4%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

#### Component: Caneyville (3%)

Generated brief soil descriptions are created for major components. The Caneyville soil is a minor component.

#### Component: Fredonia (3%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

---

### Map Unit Rs (0.02%)

Map Unit Name: Roellen silty clay loam

Bedrock Depth - Min:

Watertable Depth - Annual Min: 15cm



## Soil Information

Drainage Class - Dominant: Poorly drained  
Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Roellen(95%)  
horizon H1(0cm to 48cm) Silty clay loam  
horizon H2(48cm to 96cm) Silty clay  
horizon H3(96cm to 157cm) Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Rs - Roellen silty clay loam

Component: Roellen (95%)

The Roellen, occasionally flooded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

Component: Newark (2%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

Component: Melvin (2%)

Generated brief soil descriptions are created for major components. The Melvin soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit SaA (1.61%)

Map Unit Name: Sango silt loam, 0 to 2 percent slopes  
Bedrock Depth - Min:  
Watertable Depth - Annual Min: 56cm  
Drainage Class - Dominant: Moderately well drained  
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Sango(95%)  
horizon H1(0cm to 20cm) Silt loam  
horizon H2(20cm to 58cm) Silt loam  
horizon H3(58cm to 117cm) Silt loam  
horizon H4(117cm to 168cm) Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SaA - Sango silt loam, 0 to 2 percent slopes

Component: Sango (95%)

The Sango component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on uplands. The parent material consists of thick fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 20 to 34 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 22 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does

## Soil Information

not meet hydric criteria.

Component: Dickson (2%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Crider (1%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

Component: Mountview (1%)

Generated brief soil descriptions are created for major components. The Mountview soil is a minor component.

---

### Map Unit SaB (6.9%)

|                                    |   |
|------------------------------------|---|
| Map Unit Name:                     | Sango silt loam, 2 to 6 percent slopes  |
| Bedrock Depth - Min:               |   |
| Watertable Depth - Annual Min:     | 56cm  |
| Drainage Class - Dominant:         | Moderately well drained   |
| Hydrologic Group - Dominant:       | D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted. |
| Major components are printed below |   |
| Sango(95%)                         |   |
| horizon H1(0cm to 20cm)            | Silt loam   |
| horizon H2(20cm to 58cm)           | Silt loam   |
| horizon H3(58cm to 117cm)          | Silt loam   |
| horizon H4(117cm to 168cm)         | Silty clay loam   |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SaB - Sango silt loam, 2 to 6 percent slopes

Component: Sango (95%)

The Sango component makes up 95 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on uplands. The parent material consists of thick fine-silty noncalcareous loess over clayey residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 20 to 34 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 22 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Dickson (2%)

Generated brief soil descriptions are created for major components. The Dickson soil is a minor component.

Component: Crider (1%)

Generated brief soil descriptions are created for major components. The Crider soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Mountview (1%)

Generated brief soil descriptions are created for major components. The Mountview soil is a minor component.

---

### Map Unit St (0.49%)

|                |                  |
|----------------|------------------|
| Map Unit Name: | Staser silt loam |
|----------------|------------------|

## Soil Information

Bedrock Depth - Min:

Watertable Depth - Annual Min: 152cm

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Staser(95%)

horizon H1(0cm to 30cm) Silt loam

horizon H2(30cm to 157cm) Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: St - Staser silt loam

Component: Staser (95%)

The Staser, occasionally flooded component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of mixed fine-loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Hamblen (2%)

Generated brief soil descriptions are created for major components. The Hamblen soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Newark (1%)

Generated brief soil descriptions are created for major components. The Newark soil is a minor component.

Component: Sensabaugh (1%)

Generated brief soil descriptions are created for major components. The Sensabaugh soil is a minor component.

---

### Map Unit Ta (9.63%)

Map Unit Name: Taft silt loam

Bedrock Depth - Min:

Watertable Depth - Annual Min: 46cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Taft(95%)

horizon H1(0cm to 20cm) Silt loam

horizon H2(20cm to 41cm) Silt loam

horizon H3(41cm to 162cm) Silt loam

horizon H4(162cm to 203cm) Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ta - Taft silt loam

Component: Taft (95%)



## Soil Information

The Taft component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on stream terraces on valleys. The parent material consists of thin fine-silty noncalcareous loess derived from sandstone and siltstone over fine-silty residuum weathered from limestone. Depth to a root restrictive layer, fragipan, is 16 to 36 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Component: Dowellton (2%)

Generated brief soil descriptions are created for major components. The Dowellton soil is a minor component.

Component: Melvin (2%)

Generated brief soil descriptions are created for major components. The Melvin soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit TbB2 (0.02%)

|                                    |   |
|------------------------------------|---|
| Map Unit Name:                     | Talbott cherty silty clay loam, 2 to 6 percent slopes, eroded (vertrees)  |
| Bedrock Depth - Min:               |   |
| Watertable Depth - Annual Min:     |   |
| Drainage Class - Dominant:         | Well drained  |
| Hydrologic Group - Dominant:       | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |
| Major components are printed below |   |
| Vertrees(95%)                      |   |
| horizon H1(0cm to 13cm)            | Gravelly silty clay loam  |
| horizon H2(13cm to 155cm)          | Gravelly clay   |
| horizon H3(155cm to 211cm)         | Clay  |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TbB2 - Talbott cherty silty clay loam, 2 to 6 percent slopes, eroded (vertrees)

Component: Vertrees (95%)

The Vertrees component makes up 95 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Baxter (3%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Christian (1%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

---

### Map Unit TbC2 (0.05%)

|                                |   |
|--------------------------------|---|
| Map Unit Name:                 | Talbott cherty silty clay loam, 6 to 12 percent slopes, eroded (vertrees) |
| Bedrock Depth - Min:           |   |
| Watertable Depth - Annual Min: |   |

## Soil Information

Drainage Class - Dominant: Well drained  
Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

|                            |                          |
|----------------------------|--------------------------|
| Vertrees(90%)              |                          |
| horizon H1(0cm to 13cm)    | Gravelly silty clay loam |
| horizon H2(13cm to 155cm)  | Gravelly clay            |
| horizon H3(155cm to 211cm) | Gravelly clay            |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TbC2 - Talbott cherty silty clay loam, 6 to 12 percent slopes, eroded (vertrees)

Component: Vertrees (90%)

The Vertrees component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Baxter (4%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Christian (3%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

Component: Other soils (2%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Fredonia (1%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

---

### Map Unit TcC3 (0.27%)

Map Unit Name: Talbott cherty silty clay, 6 to 12 percent slopes, severely eroded (vertrees)

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

|                            |                     |
|----------------------------|---------------------|
| Vertrees(90%)              |                     |
| horizon H1(0cm to 15cm)    | Gravelly silty clay |
| horizon H2(15cm to 140cm)  | Gravelly clay       |
| horizon H3(140cm to 196cm) | Gravelly clay       |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TcC3 - Talbott cherty silty clay, 6 to 12 percent slopes, severely eroded (vertrees)

Component: Vertrees (90%)

The Vertrees, severely eroded component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded.

## Soil Information

It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Baxter (4%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Christian (3%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

Component: Other soils (2%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Fredonia (1%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

---

### Map Unit TIB2 (0.03%)

Map Unit Name: Talbott silty clay loam, 2 to 6 percent slopes, eroded (vertrees)

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Vertrees(95%)

horizon H1(0cm to 13cm) Silty clay loam

horizon H2(13cm to 155cm) Clay

horizon H3(155cm to 211cm) Clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TIB2 - Talbott silty clay loam, 2 to 6 percent slopes, eroded (vertrees)

Component: Vertrees (95%)

The Vertrees component makes up 95 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Baxter (2%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Fredonia (1%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

Component: Christian (1%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

---

### Map Unit TIC2 (0.04%)

Map Unit Name: Talbott silty clay loam, 6 to 12 percent slopes, eroded (vertrees)

Bedrock Depth - Min:



## Soil Information

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Well drained

Hydrologic Group - Dominant:

C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Vertrees(90%)

horizon H1(0cm to 13cm)

Silty clay loam

horizon H2(13cm to 155cm)

Clay

horizon H3(155cm to 211cm)

Clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TIC2 - Talbott silty clay loam, 6 to 12 percent slopes, eroded (vertrees)

Component: Vertrees (90%)

The Vertrees component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ridges on uplands. The parent material consists of clayey residuum weathered from limestone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Baxter (4%)

Generated brief soil descriptions are created for major components. The Baxter soil is a minor component.

Component: Christian (3%)

Generated brief soil descriptions are created for major components. The Christian soil is a minor component.

Component: Fredonia (2%)

Generated brief soil descriptions are created for major components. The Fredonia soil is a minor component.

Component: Other soils (1%)

Generated brief soil descriptions are created for major components. The Other soils soil is a minor component.

---

### Map Unit TrC (0.33%)

Map Unit Name:

Tarklin gravelly silt loam, 6 to 12 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

41cm

Drainage Class - Dominant:

Moderately well drained

Hydrologic Group - Dominant:

D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Tarklin(90%)

horizon Ap(0cm to 20cm)

Gravelly silt loam

horizon Bt(20cm to 58cm)

Gravelly silty clay loam

horizon Btx(58cm to 152cm)

Gravelly silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TrC - Tarklin gravelly silt loam, 6 to 12 percent slopes

Component: Tarklin (90%)

The Tarklin component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on stream terraces on valleys. The parent material consists of gravelly colluvium and/or alluvium derived from cherty limestone. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive

## Soil Information

layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 16 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Trimble (7%)

Generated brief soil descriptions are created for major soil components. The Trimble soil is a minor component.

Component: Lawrence (3%)

Generated brief soil descriptions are created for major soil components. The Lawrence, rarely flooded soil is a minor component.

---

### Map Unit W (0.39%)

Map Unit Name: Water

No more attributes available for this map unit

Component Description:

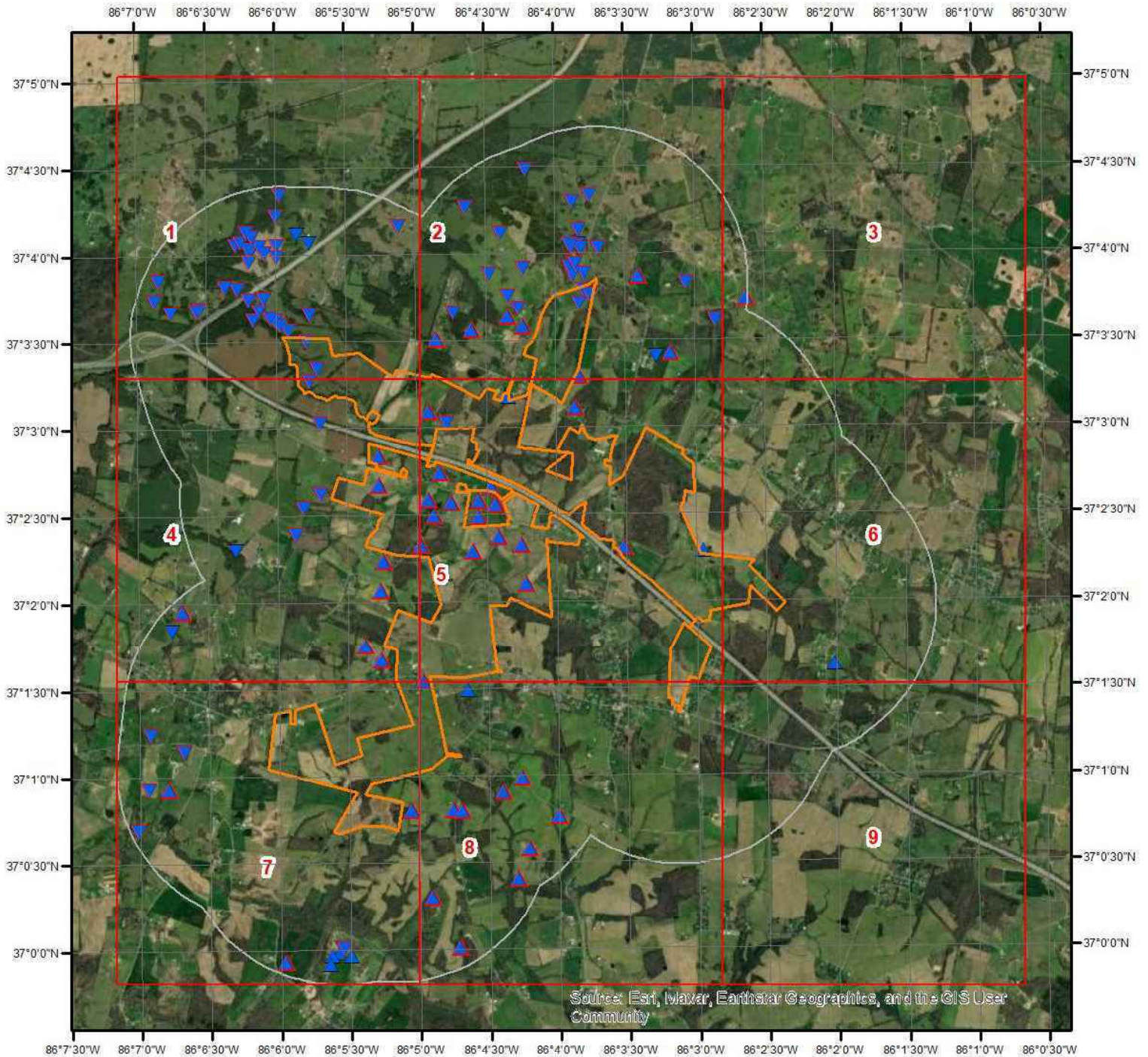
Minor map unit components are excluded from this report.

Map Unit: W - Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

## Wells and Additional Sources

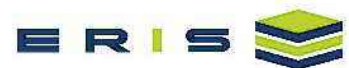


## Wells & Additional Sources



0 0.45 0.9 1.8 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources



### Wells & Additional Sources - Page 1



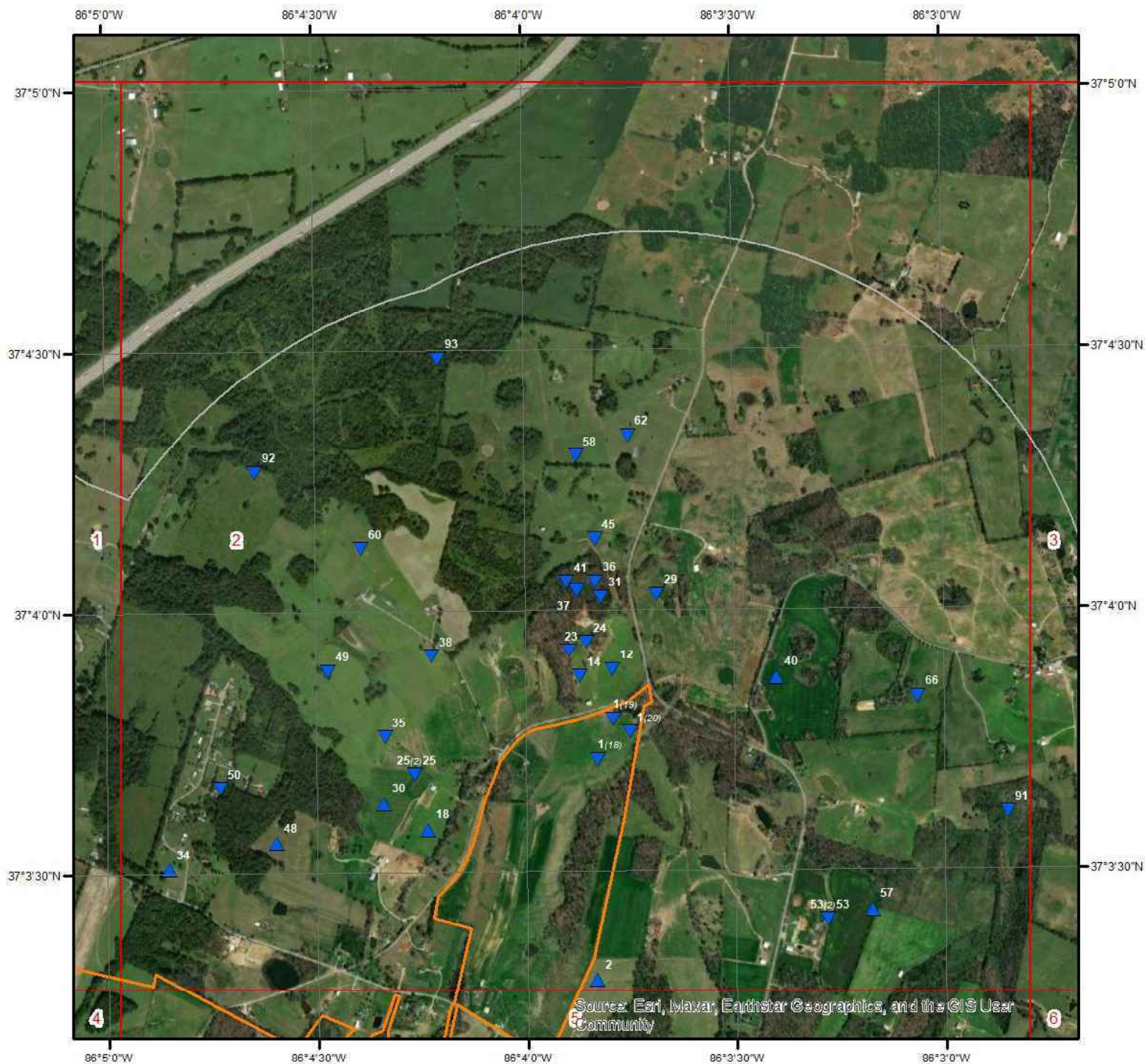
0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
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| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





Wells and Additional Sources



Wells & Additional Sources - Page 2

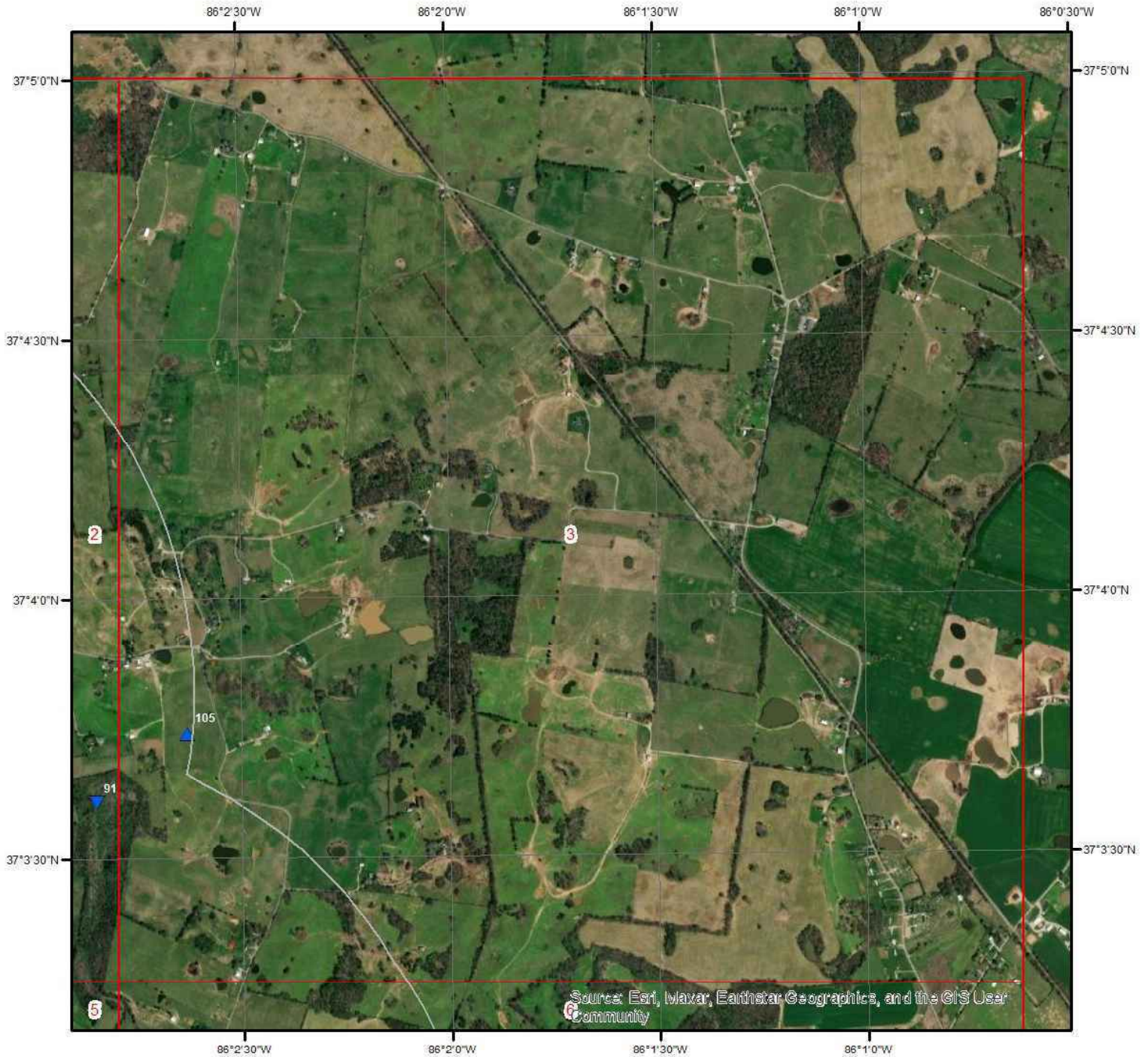


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| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





# Wells and Additional Sources



## Wells & Additional Sources - Page 3



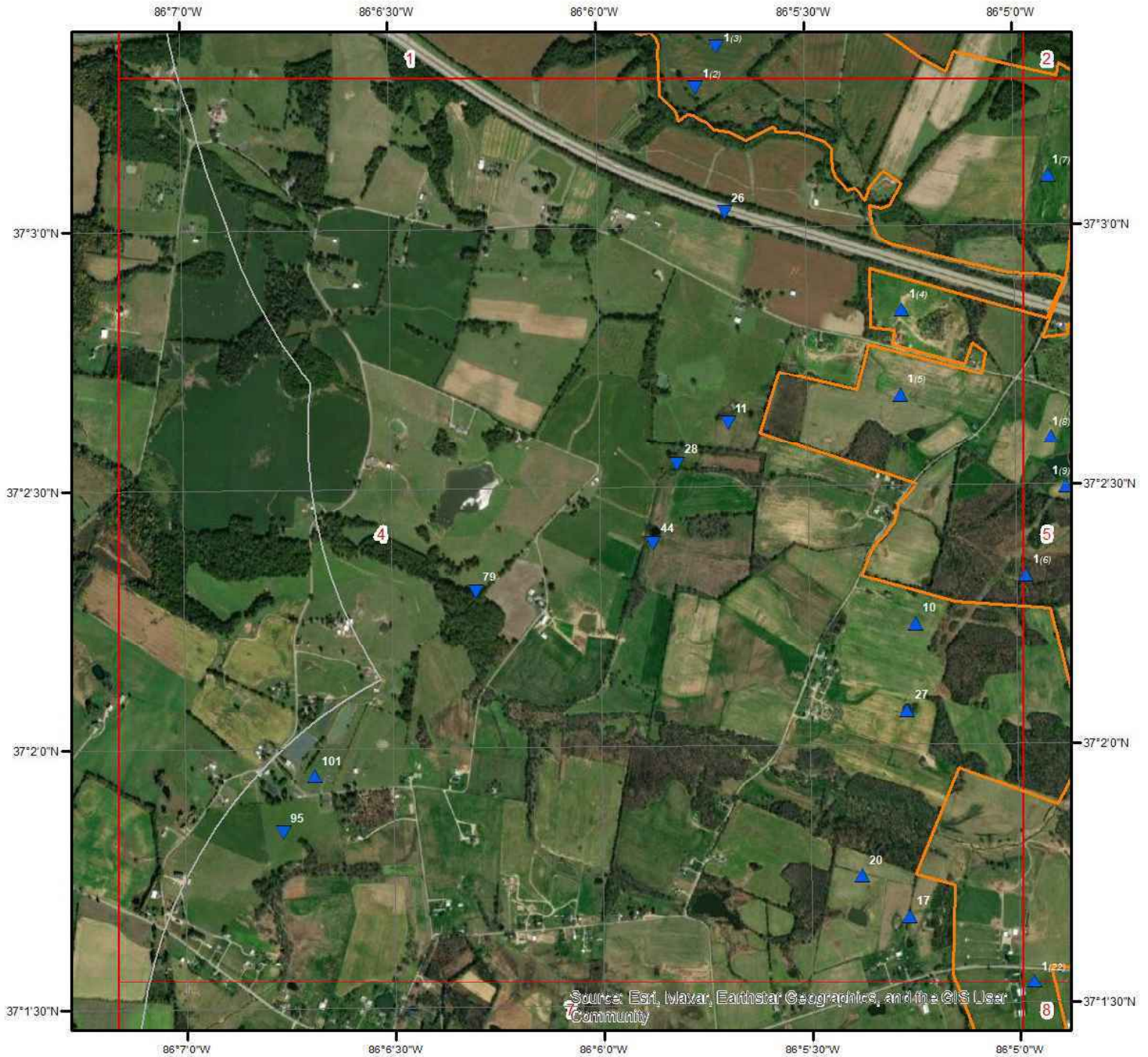
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- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources



### Wells & Additional Sources - Page 4



0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





# Wells and Additional Sources



## Wells & Additional Sources - Page 5



0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources



### Wells & Additional Sources - Page 6



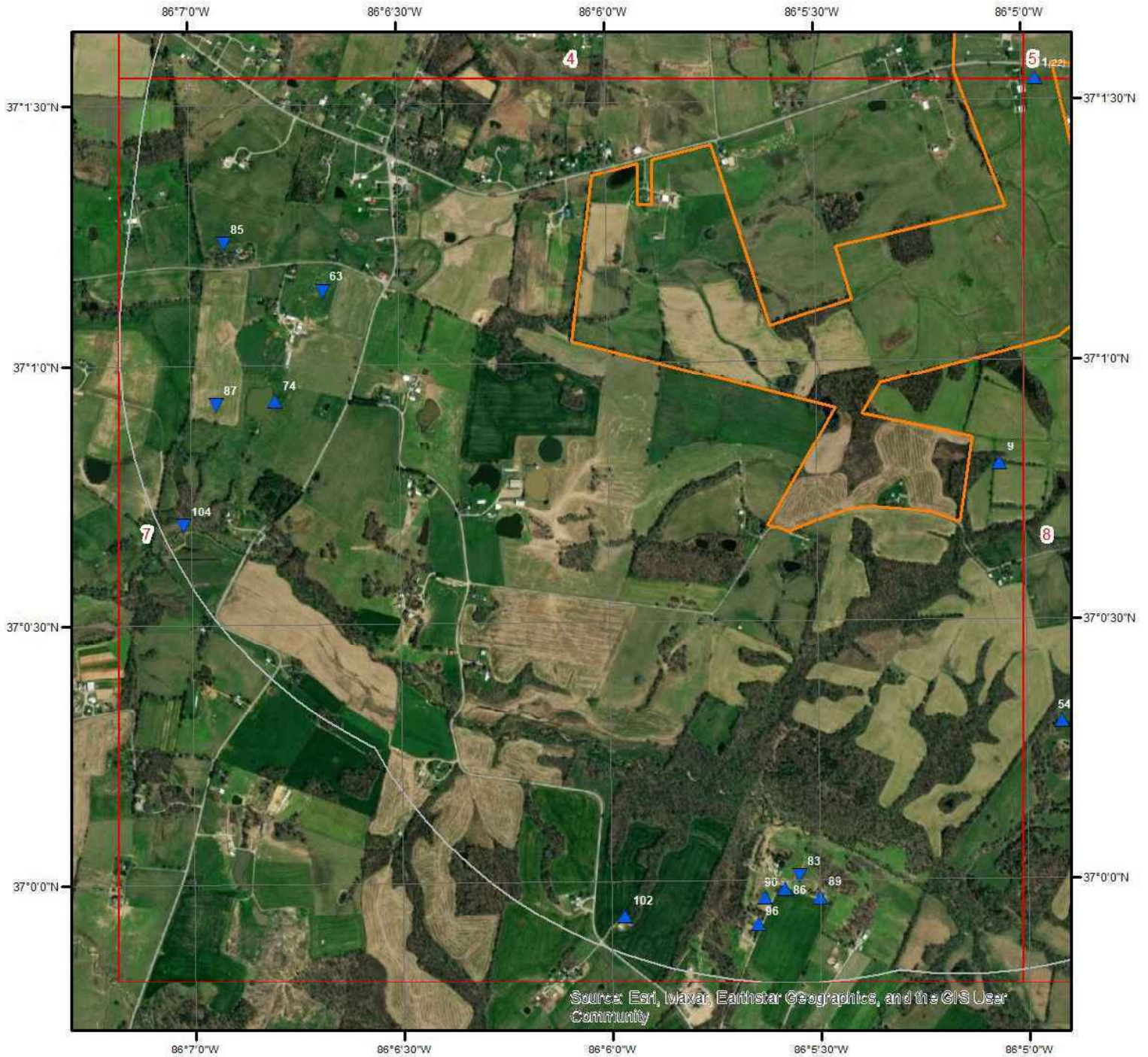
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- |                                |                                    |
|--------------------------------|------------------------------------|
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| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





# Wells and Additional Sources



## Wells & Additional Sources - Page 7



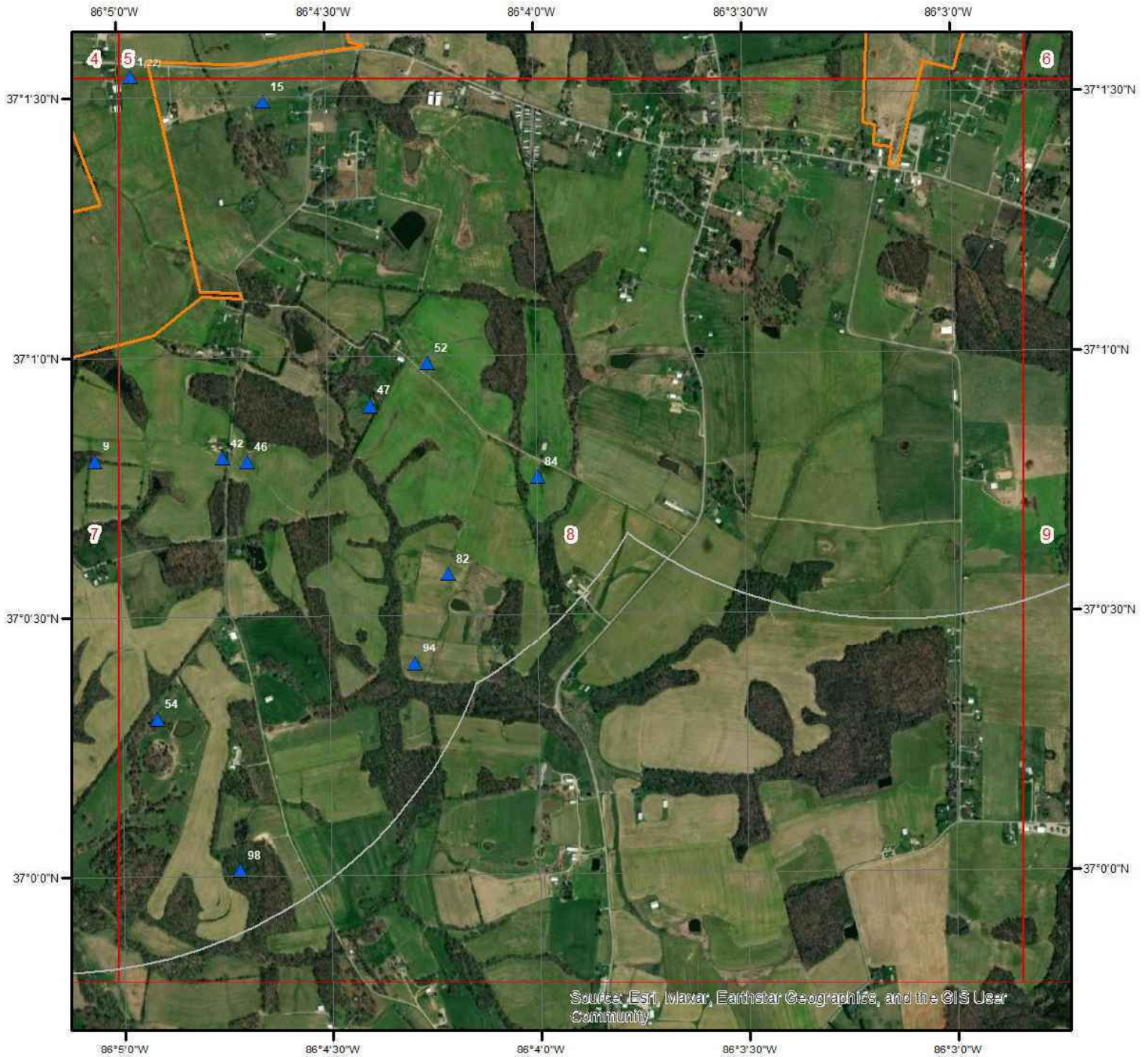
0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
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| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources



### Wells & Additional Sources - Page 8



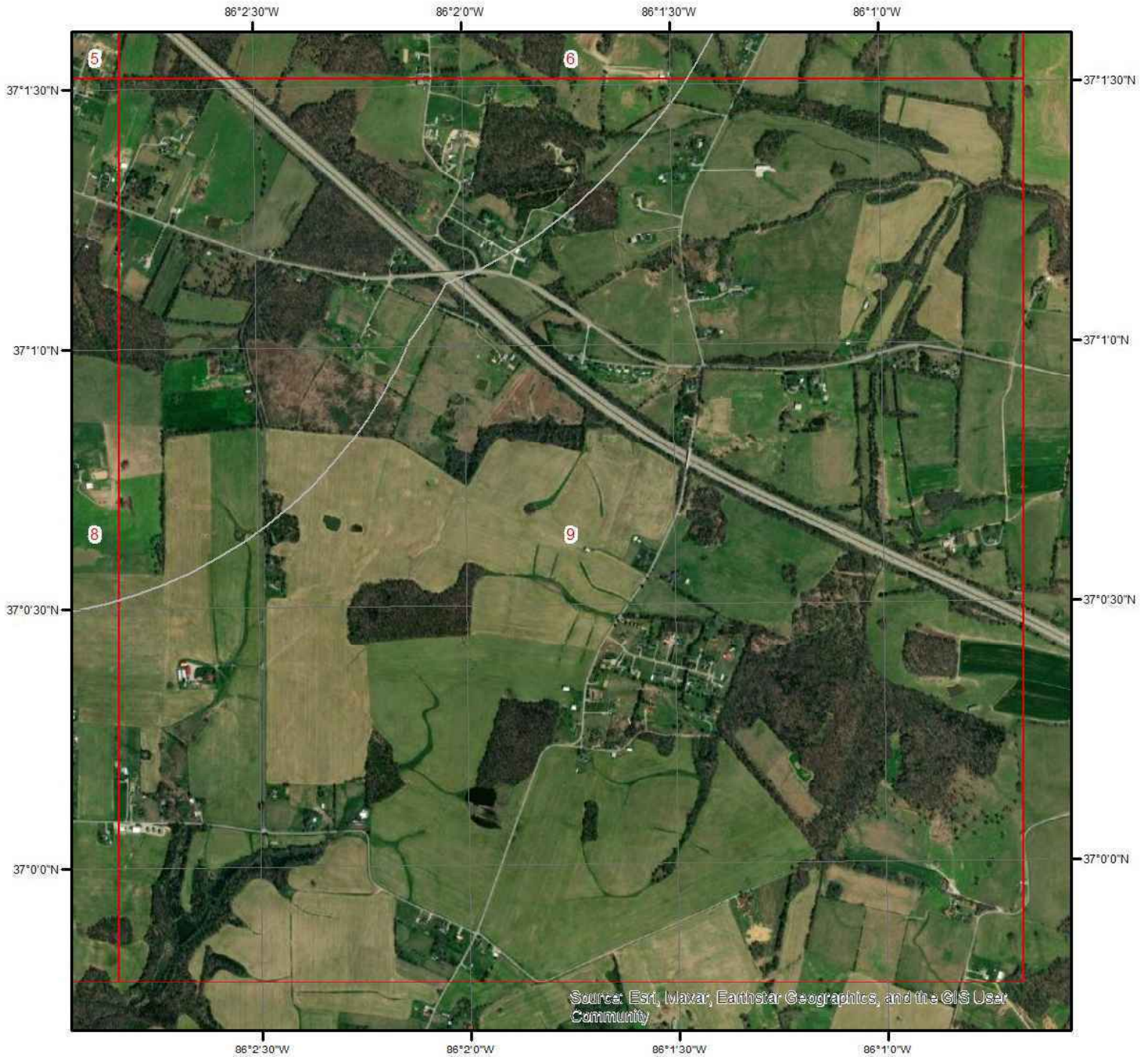
0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources



### Wells & Additional Sources - Page 9



0 0.15 0.3 0.6 Miles

- |                                |                                    |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation  | ▲ OGW Sites with Higher Elevation  |
| ■ Sites with Same Elevation    | ■ OGW Sites with Same Elevation    |
| ▼ Sites with Lower Elevation   | ▼ OGW Sites with Lower Elevation   |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |





## Wells and Additional Sources Summary

### Federal Sources

#### Public Water Systems Violations and Enforcement Data

| Map Key | ID               | Distance (ft) | Direction |
|---------|------------------|---------------|-----------|
|         | No records found |               |           |

#### Safe Drinking Water Information System (SDWIS)

| Map Key | ID               | Distance (ft) | Direction |
|---------|------------------|---------------|-----------|
|         | No records found |               |           |

#### USGS National Water Information System

| Map Key | Site Number          | Distance (ft) | Direction |
|---------|----------------------|---------------|-----------|
| 53      | USGS-370324086031701 | 2526.46       | NE        |
| 73      | USGS-370404086054601 | 3325.06       | NNW       |

#### Wells from NWIS

| Map Key | ID               | Distance (ft) | Direction |
|---------|------------------|---------------|-----------|
|         | No records found |               |           |

### State Sources

#### Kentucky Groundwater Data Repository

| Map Key | AKGWA No | Distance (ft) | Direction |
|---------|----------|---------------|-----------|
| 1       | 30005036 | 0.00          | -         |
| 3       | 50001188 | 143.83        | E         |
| 15      | 30005009 | 471.49        | S         |
| 36      | 40006249 | 1343.68       | NNE       |
| 53      | 40008147 | 2526.46       | NE        |
| 56      | 30005250 | 2744.55       | ESE       |
| 70      | 40007491 | 3250.25       | NW        |
| 77      | 30003924 | 3609.02       | NNW       |
| 79      | 60001233 | 3802.67       | W         |
| 86      | 00057220 | 4179.96       | SSW       |
| 89      | 00057218 | 4291.70       | SSW       |
| 90      | 00057222 | 4293.17       | SSW       |
| 95      | 30005253 | 4599.78       | WSW       |
| 96      | 00057216 | 4602.12       | SSW       |

#### Oil and Gas Wells

| Map Key | API            | Distance (ft) | Direction |
|---------|----------------|---------------|-----------|
| 1       | 16009026240000 | 0.00          | -         |
| 1       | 16009005970000 | 0.00          | -         |
| 1       | 16009015910000 | 0.00          | -         |

## Wells and Additional Sources Summary

|    |                |         |     |
|----|----------------|---------|-----|
| 1  | 16009005440000 | 0.00    | -   |
| 1  | 16009020410000 | 0.00    | -   |
| 1  | 16009007210000 | 0.00    | -   |
| 1  | 16009020360000 | 0.00    | -   |
| 1  | 16009001030000 | 0.00    | -   |
| 1  | 16009020400000 | 0.00    | -   |
| 1  | 16009001040000 | 0.00    | -   |
| 1  |                | 0.00    | -   |
| 1  | 16009020600000 | 0.00    | -   |
| 1  | 16009005230000 | 0.00    | -   |
| 1  | 16009007150000 | 0.00    | -   |
| 1  | 16009020390000 | 0.00    | -   |
| 1  | 16009020370000 | 0.00    | -   |
| 1  | 16009020380000 | 0.00    | -   |
| 1  | 16009006850000 | 0.00    | -   |
| 1  | 16009006910000 | 0.00    | -   |
| 1  | 16009017660000 | 0.00    | -   |
| 1  | 16061004630000 | 0.00    | -   |
| 1  |                | 0.00    | -   |
| 2  | 16009005210000 | 141.29  | NNE |
| 4  | 16061008300000 | 196.93  | NW  |
| 5  | 16009012020000 | 256.70  | N   |
| 6  | 16009015680000 | 299.07  | N   |
| 7  | 16009007130000 | 339.53  | NW  |
| 8  | 16009007140000 | 341.12  | NNW |
| 9  | 16009019390000 | 361.30  | SSW |
| 10 | 16009024510000 | 365.64  | WSW |
| 11 | 16009014900000 | 385.72  | WNW |
| 12 | 16009006400000 | 397.66  | NNE |
| 13 | 16061008250000 | 407.54  | NW  |
| 14 | 16009018460000 | 456.82  | NNE |
| 16 | 16009015740000 | 482.23  | NNE |
| 17 | 16009019820000 | 489.73  | SW  |
| 18 | 16009019240000 | 535.39  | N   |
| 19 | 16061005280000 | 630.21  | NW  |
| 20 | 16009023500000 | 631.87  | SW  |
| 21 | 16061000800000 | 740.79  | NW  |
| 22 | 16061004620000 | 773.32  | NW  |
| 23 | 16009018450000 | 781.03  | NNE |
| 24 | 16009018440000 | 807.87  | NNE |
| 25 | 16009015510000 | 852.55  | N   |
| 25 | 16009005880000 | 852.55  | N   |
| 26 | 16009015900000 | 878.91  | WNW |
| 27 | 16009005480000 | 894.62  | WSW |
| 28 | 16009002340000 | 1035.68 | W   |
| 29 | 16009006750000 | 1046.80 | NNE |
| 30 | 16009005890000 | 1111.64 | N   |
| 31 | 16009018410000 | 1155.08 | NNE |
| 32 | 16061006300000 | 1156.93 | NW  |
| 33 | 16061000670000 | 1193.47 | NW  |
| 34 | 16061007610000 | 1225.19 | NNW |
| 35 | 16009005050000 | 1342.48 | N   |
| 37 | 16009018420000 | 1367.18 | NNE |
| 38 | 16009021140000 | 1388.13 | N   |
| 39 | 16061000540000 | 1476.68 | NW  |
| 40 |                | 1488.14 | NNE |
| 41 | 16009018430000 | 1522.75 | NNE |
| 42 | 16009013270000 | 1648.71 | S   |
| 43 | 16061000790000 | 1725.01 | NW  |
| 44 | 16009002330000 | 1798.22 | W   |
| 45 | 16009006740000 | 1799.40 | NNE |
| 46 | 16009019360000 | 1844.34 | S   |
| 47 | 16009013200000 | 1960.00 | S   |
| 48 | 16061000480000 | 1969.34 | N   |
| 49 | 16061000470000 | 2245.85 | N   |
| 50 | 16061000500000 | 2272.75 | N   |

## Wells and Additional Sources Summary

|     |                |         |     |
|-----|----------------|---------|-----|
| 51  |                | 2289.63 | NW  |
| 52  | 16009019350000 | 2298.02 | S   |
| 54  | 16009024270000 | 2614.02 | S   |
| 55  | 16061000610000 | 2646.79 | NW  |
| 57  |                | 2766.17 | NE  |
| 58  |                | 2783.99 | NNE |
| 59  | 16061000520000 | 2786.57 | NW  |
| 60  | 16061006260000 | 2860.12 | N   |
| 61  | 16061008380000 | 2871.65 | NW  |
| 62  |                | 2900.22 | NNE |
| 63  | 16009001180000 | 2954.90 | SW  |
| 64  | 16061000600000 | 2999.14 | NW  |
| 64  |                | 2999.14 | NW  |
| 65  |                | 3011.76 | NW  |
| 66  |                | 3095.28 | NE  |
| 67  | 16061008330000 | 3117.92 | NW  |
| 68  | 16061006410000 | 3185.14 | NW  |
| 69  | 16061008290000 | 3245.22 | NW  |
| 71  | 16061008280000 | 3262.45 | NW  |
| 72  | 16061008370000 | 3287.16 | NW  |
| 74  | 16009017040000 | 3525.98 | SW  |
| 75  |                | 3588.61 | NW  |
| 76  | 16061008260000 | 3605.90 | NW  |
| 78  | 16061008390000 | 3649.65 | NW  |
| 80  | 16061000590000 | 3855.79 | NW  |
| 81  |                | 3962.74 | NW  |
| 82  | 16009014440000 | 4029.35 | S   |
| 83  |                | 4041.38 | SSW |
| 84  | 16009013210000 | 4043.45 | SSE |
| 85  | 16009017060000 | 4166.94 | WSW |
| 87  | 16009000920000 | 4213.40 | SW  |
| 88  | 16061000550000 | 4218.27 | NW  |
| 91  | 16009013810000 | 4338.11 | NE  |
| 92  | 16061000570000 | 4345.42 | N   |
| 93  |                | 4454.10 | N   |
| 94  | 16009022900000 | 4526.56 | S   |
| 97  | 16061006240000 | 4615.53 | NW  |
| 98  | 16009024190000 | 4621.87 | S   |
| 99  |                | 4622.53 | NNW |
| 100 | 16061000330000 | 4732.23 | NW  |
| 101 |                | 4791.37 | WSW |
| 102 | 16009000490000 | 4857.48 | SSW |
| 103 | 16061000580000 | 4939.47 | NNW |
| 104 | 16009021250000 | 5016.76 | SW  |
| 105 | 16009017020000 | 5228.60 | NE  |

### Public Water Supply Wells

| Map Key          | ID | Distance (ft) | Direction |
|------------------|----|---------------|-----------|
| No records found |    |               |           |



## Wells and Additional Sources Detail Report

### USGS National Water Information System

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB       |
|---------|-----------|---------------|---------------|----------------|----------|
| 53      | NE        | 0.48          | 2,526.46      | 668.88         | FED USGS |

Reporting Agency: USGS Kentucky Water Science Center  
Site Number: USGS-370324086031701  
Station Name: I15D0117  
Site Type: Spring  
Latitude: 37.05671488000000  
Longitude: -86.0547018000000  
Date Drilled:  
Well Depth:  
Well Depth Unit:  
Well Hole Depth:  
W Hole Depth Unit:  
Formation Type: St. Louis Limestone

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB       |
|---------|-----------|---------------|---------------|----------------|----------|
| 73      | NNW       | 0.63          | 3,325.06      | 611.77         | FED USGS |

Reporting Agency: USGS Kentucky Water Science Center  
Site Number: USGS-370404086054601  
Station Name: I15D0101  
Site Type: Well  
Latitude: 37.06782530000000  
Longitude: -86.0960911000000  
Date Drilled:  
Well Depth: 48.0  
Well Depth Unit: ft  
Well Hole Depth: 60.0  
W Hole Depth Unit: ft  
Formation Type:

### Kentucky Groundwater Data Repository

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 1       | -         | 0.00          | 0.00          | 710.56         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 30005036                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Barren     |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.052948  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.072281 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

## Wells and Additional Sources Detail Report

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 3       | E         | 0.03          | 143.83        | 753.09         | WATER WELLS |

|                     |                    |                  |            |
|---------------------|--------------------|------------------|------------|
| AKGWA No:           | 50001188           | Surface Elev:    | 755        |
| ALT ID:             | 370217086025701    | County:          | Barren     |
| Type:               | W                  | Quad Name:       | Park City  |
| Usage:              |                    | Latitude:        | 37.038105  |
| Physiograph Region: | Western Pennyroyal | Longitude:       | -86.049141 |
| Site Name:          |                    | Lat Long Method: | TOPO       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 15      | S         | 0.09          | 471.49        | 710.57         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 30005009                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Barren     |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.024845  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.077484 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 36      | NNE       | 0.25          | 1,343.68      | 639.81         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 40006249                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Barren     |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.067551  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.063866 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 53      | NE        | 0.48          | 2,526.46      | 668.88         | WATER WELLS |

|                     |                    |                  |            |
|---------------------|--------------------|------------------|------------|
| AKGWA No:           | 40008147           | Surface Elev:    |            |
| ALT ID:             | 370324086031701    | County:          | Barren     |
| Type:               | W                  | Quad Name:       | Park City  |
| Usage:              |                    | Latitude:        | 37.056714  |
| Physiograph Region: | Western Pennyroyal | Longitude:       | -86.054701 |
| Site Name:          | I15D0117           | Lat Long Method: |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 56      | ESE       | 0.52          | 2,744.55      | 731.76         | WATER WELLS |

## Wells and Additional Sources Detail Report

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 30005250                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Barren     |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.027149  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.033577 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 70      | NW        | 0.62          | 3,250.25      | 615.77         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 40007491                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Edmonson   |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.067268  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.102753 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 77      | NNW       | 0.68          | 3,609.02      | 583.99         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 30003924                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Edmonson   |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.068645  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.097481 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 79      | W         | 0.72          | 3,802.67      | 673.57         | WATER WELLS |

|                     |                             |                  |           |
|---------------------|-----------------------------|------------------|-----------|
| AKGWA No:           | 60001233                    | Surface Elev:    |           |
| ALT ID:             |                             | County:          | Barren    |
| Type:               | W                           | Quad Name:       | Park City |
| Usage:              | Domestic - Single Household | Latitude:        | 37.038333 |
| Physiograph Region: |                             | Longitude:       | -86.105   |
| Site Name:          |                             | Lat Long Method: |           |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 86      | SSW       | 0.79          | 4,179.96      | 699.41         | WATER WELLS |

|           |          |               |        |
|-----------|----------|---------------|--------|
| AKGWA No: | 00057220 | Surface Elev: | 700    |
| ALT ID:   |          | County:       | Barren |
| Type:     | W        | Quad Name:    | Lucas  |



## Wells and Additional Sources Detail Report

|                     |                                  |                  |                                     |
|---------------------|----------------------------------|------------------|-------------------------------------|
| Usage:              | Agriculture - Livestock Watering | Latitude:        | 36.999722                           |
| Physiograph Region: | Mississippian Plateau            | Longitude:       | -86.093056                          |
| Site Name:          | Residence - Herman Zook          | Lat Long Method: | Paper or Internet Map Interpolation |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 89      | SSW       | 0.81          | 4,291.70      | 696.58         | WATER WELLS |

|                     |                              |                  |                                     |
|---------------------|------------------------------|------------------|-------------------------------------|
| AKGWA No:           | 00057218                     | Surface Elev:    | 700                                 |
| ALT ID:             |                              | County:          | Barren                              |
| Type:               | W                            | Quad Name:       | Lucas                               |
| Usage:              | Domestic - Single Household  | Latitude:        | 36.999444                           |
| Physiograph Region: | Mississippian Plateau        | Longitude:       | -86.091667                          |
| Site Name:          | Residence - Mahlon Gingerich | Lat Long Method: | Paper or Internet Map Interpolation |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 90      | SSW       | 0.81          | 4,293.17      | 695.98         | WATER WELLS |

|                     |                         |                  |                                     |
|---------------------|-------------------------|------------------|-------------------------------------|
| AKGWA No:           | 00057222                | Surface Elev:    | 700                                 |
| ALT ID:             |                         | County:          | Barren                              |
| Type:               | W                       | Quad Name:       | Lucas                               |
| Usage:              |                         | Latitude:        | 36.999444                           |
| Physiograph Region: | Mississippian Plateau   | Longitude:       | -86.093889                          |
| Site Name:          | Residence - Herman Zook | Lat Long Method: | Paper or Internet Map Interpolation |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 95      | WSW       | 0.87          | 4,599.78      | 666.21         | WATER WELLS |

|                     |                             |                  |            |
|---------------------|-----------------------------|------------------|------------|
| AKGWA No:           | 30005253                    | Surface Elev:    |            |
| ALT ID:             |                             | County:          | Barren     |
| Type:               | W                           | Quad Name:       | Park City  |
| Usage:              | Domestic - Single Household | Latitude:        | 37.030647  |
| Physiograph Region: | Western Pennyroyal          | Longitude:       | -86.112785 |
| Site Name:          |                             | Lat Long Method: | UNKN       |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB          |
|---------|-----------|---------------|---------------|----------------|-------------|
| 96      | SSW       | 0.87          | 4,602.12      | 717.68         | WATER WELLS |

|                     |                             |                  |                                     |
|---------------------|-----------------------------|------------------|-------------------------------------|
| AKGWA No:           | 00057216                    | Surface Elev:    | 720                                 |
| ALT ID:             |                             | County:          | Barren                              |
| Type:               | W                           | Quad Name:       | Lucas                               |
| Usage:              | Domestic - Single Household | Latitude:        | 36.998611                           |
| Physiograph Region: | Mississippian Plateau       | Longitude:       | -86.094167                          |
| Site Name:          | Residence - Noah Hostetter  | Lat Long Method: | Paper or Internet Map Interpolation |

## Oil and Gas Wells

## Wells and Additional Sources Detail Report

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 1                  | -   | 0.00             | 0.00          | 759.94         | OGW |
| KGS Rec No:        | 133108  | FNS:             | 1875          |                |     |
| KGS Permit:        | N13116  | NS:              | S             |                |     |
| API:               | 16009026240000  | FEW:             | 2335          |                |     |
| ORG Well No:       |   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.038531     |                |     |
| No:                | 42  | Longitude:       | -86.058647    |                |     |
| Section:           | 14  | Rec Lat NAD1927: | 37.038483     |                |     |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.058667    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | UNKNOWN   |                  |               |                |     |
| ORG Farm:          | GARRETT   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=133108">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=133108</a> |                  |               |                |     |

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 1                  | -   | 0.00             | 0.00          | 638.05         | OGW |
| KGS Rec No:        | 2001193   | FNS:             | 1600          |                |     |
| KGS Permit:        | 31180   | NS:              | S             |                |     |
| API:               | 16009005970000  | FEW:             | 1150          |                |     |
| ORG Well No:       | 1   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.054442     |                |     |
| No:                | 41  | Longitude:       | -86.09604     |                |     |
| Section:           | 10  | Rec Lat NAD1927: | 37.054394     |                |     |
| Surface Elevation: | 637.0   | Rec Lon NAD1927: | -86.096059    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | FARRIS, HENRY   |                  |               |                |     |
| ORG Farm:          | BELLAMY, CURTIS   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001193">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001193</a> |                  |               |                |     |

| Map Key      | Direction      | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------|----------------|---------------|---------------|----------------|-----|
| 1            | -              | 0.00          | 0.00          | 656.17         | OGW |
| KGS Rec No:  | 69698          | FNS:          | 2075          |                |     |
| KGS Permit:  | 53244          | NS:           | S             |                |     |
| API:         | 16009015910000 | FEW:          | 1400          |                |     |
| ORG Well No: | 2C             | EW:           | W             |                |     |
| Bore Type:   | V              | Latitude:     | 37.055747     |                |     |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| No:                | 41  | Longitude:       | -86.095183 |
| Section:           | 10  | Rec Lat NAD1927: | 37.055699  |
| Surface Elevation: | 655.0   | Rec Lon NAD1927: | -86.095202 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69698">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69698</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 687.03         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 69108   | FNS:             | 1000       |
| KGS Permit:        | 72571   | NS:              | N          |
| API:               | 16009005440000  | FEW:             | 1325       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.047301  |
| No:                | 41  | Longitude:       | -86.087854 |
| Section:           | 11  | Rec Lat NAD1927: | 37.047253  |
| Surface Elevation: | 687.0   | Rec Lon NAD1927: | -86.087872 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69108">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69108</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 703.36         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 69109   | FNS:             | 2000       |
| KGS Permit:        | 72572   | NS:              | N          |
| API:               | 16009020410000  | FEW:             | 1350       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.044554  |
| No:                | 41  | Longitude:       | -86.087939 |
| Section:           | 11  | Rec Lat NAD1927: | 37.044506  |
| Surface Elevation: | 704.0   | Rec Lon NAD1927: | -86.087957 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, RILEY  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69109">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69109</a> |                  |            |



## Wells and Additional Sources Detail Report

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 1                  | -   | 0.00             | 0.00          | 693.34         | OGW |
| KGS Rec No:        | 110103  | FNS:             | 1950          |                |     |
| KGS Permit:        | 51828   | NS:              | S             |                |     |
| API:               | 16009007210000  | FEW:             | 100           |                |     |
| ORG Well No:       | 1   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.038737     |                |     |
| No:                | 42  | Longitude:       | -86.082972    |                |     |
| Section:           | 15  | Rec Lat NAD1927: | 37.038689     |                |     |
| Surface Elevation: | 691.0   | Rec Lon NAD1927: | -86.08299     |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | MID-STATE INVESTMENT CORP   |                  |               |                |     |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110103">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110103</a> |                  |               |                |     |

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 1                  | -   | 0.00             | 0.00          | 690.58         | OGW |
| KGS Rec No:        | 2047  | FNS:             | 550           |                |     |
| KGS Permit:        | 40543   | NS:              | S             |                |     |
| API:               | 16009020360000  | FEW:             | 400           |                |     |
| ORG Well No:       | 2   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.051558     |                |     |
| No:                | 42  | Longitude:       | -86.081943    |                |     |
| Section:           | 6   | Rec Lat NAD1927: | 37.05151      |                |     |
| Surface Elevation: | 689.0   | Rec Lon NAD1927: | -86.081962    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | KENTUCKY LEASING & DRILLING CO  |                  |               |                |     |
| ORG Farm:          | BELLAMY, CURTIS   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2047">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2047</a> |                  |               |                |     |

| Map Key      | Direction      | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------|----------------|---------------|---------------|----------------|-----|
| 1            | -              | 0.00          | 0.00          | 722.81         | OGW |
| KGS Rec No:  | 31094          | FNS:          | 2500          |                |     |
| KGS Permit:  | 58365          | NS:           | N             |                |     |
| API:         | 16009001030000 | FEW:          | 400           |                |     |
| ORG Well No: | 1              | EW:           | W             |                |     |
| Bore Type:   | V              | Latitude:     | 37.043181     |                |     |
| No:          | 42             | Longitude:    | -86.081944    |                |     |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Section:           | 15  | Rec Lat NAD1927: | 37.043133  |
| Surface Elevation: | 725.0   | Rec Lon NAD1927: | -86.081963 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, G W & R W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31094">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31094</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 719.40         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2052  | FNS:             | 3080       |
| KGS Permit:        | 43037   | NS:              | N          |
| API:               | 16009020400000  | FEW:             | 580        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.041588  |
| No:                | 42  | Longitude:       | -86.081327 |
| Section:           | 15  | Rec Lat NAD1927: | 37.04154   |
| Surface Elevation: | 724.0   | Rec Lon NAD1927: | -86.081346 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | O'SHANTER DEVELOPMENT CO  |                  |            |
| ORG Farm:          | BELLAMY, R W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2052">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2052</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 697.34         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 31095   | FNS:             | 1575       |
| KGS Permit:        | 58366   | NS:              | N          |
| API:               | 16009001040000  | FEW:             | 800        |
| ORG Well No:       | B3  | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.045722  |
| No:                | 42  | Longitude:       | -86.080573 |
| Section:           | 15  | Rec Lat NAD1927: | 37.045674  |
| Surface Elevation: | 705.0   | Rec Lon NAD1927: | -86.080592 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31095">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31095</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---------|-----------|---------------|---------------|----------------|----|
|---------|-----------|---------------|---------------|----------------|----|

## Wells and Additional Sources Detail Report

|   |   |      |      |        |     |
|---|---|------|------|--------|-----|
| 1 | - | 0.00 | 0.00 | 666.55 | OGW |
|---|---|------|------|--------|-----|

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2046  | FNS:             | 150        |
| KGS Permit:        | 40542   | NS:              | S          |
| API:               |   | FEW:             | 1050       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.05046   |
| No:                | 42  | Longitude:       | -86.079716 |
| Section:           | 6   | Rec Lat NAD1927: | 37.050411  |
| Surface Elevation: | 667.0   | Rec Lon NAD1927: | -86.079735 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | KENTUCKY LEASING & DRILLING CO  |                  |            |
| ORG Farm:          | BELLAMY, CURTIS   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2046">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2046</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 722.09         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2053  | FNS:             | 3450       |
| KGS Permit:        | 6306  | NS:              | S          |
| API:               | 16009020600000  | FEW:             | 1175       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.042857  |
| No:                | 42  | Longitude:       | -86.079288 |
| Section:           | 15  | Rec Lat NAD1927: | 37.042808  |
| Surface Elevation: | 729.0   | Rec Lon NAD1927: | -86.079308 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | BARREN COUNTY OIL & GAS CO, INC   |                  |            |
| ORG Farm:          | BISHOP, W A   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2053">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2053</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 706.52         | OGW |

|              |                |                  |            |
|--------------|----------------|------------------|------------|
| KGS Rec No:  | 68183          | FNS:             | 1750       |
| KGS Permit:  | 72147          | NS:              | S          |
| API:         | 16009005230000 | FEW:             | 1925       |
| ORG Well No: | 1              | EW:              | W          |
| Bore Type:   | V              | Latitude:        | 37.038187  |
| No:          | 42             | Longitude:       | -86.076719 |
| Section:     | 15             | Rec Lat NAD1927: | 37.038139  |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Surface Elevation: | 698.0   | Rec Lon NAD1927: | -86.076738 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, G W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68183">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68183</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 709.97         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 60385   | FNS:             | 2100       |
| KGS Permit:        | 53776   | NS:              | N          |
| API:               | 16009007150000  | FEW:             | 2300       |
| ORG Well No:       | CH1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.04428   |
| No:                | 42  | Longitude:       | -86.074527 |
| Section:           | 15  | Rec Lat NAD1927: | 37.044232  |
| Surface Elevation: | 720.0   | Rec Lon NAD1927: | -86.074545 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=60385">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=60385</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 689.52         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 68184   | FNS:             | 2250       |
| KGS Permit:        | 72146   | NS:              | S          |
| API:               | 16009020390000  | FEW:             | 2050       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.039561  |
| No:                | 42  | Longitude:       | -86.073671 |
| Section:           | 15  | Rec Lat NAD1927: | 37.039512  |
| Surface Elevation: | 677.0   | Rec Lon NAD1927: | -86.073689 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, G W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68184">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68184</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 726.99         | OGW |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 21345   | FNS:             | 1950       |
| KGS Permit:        | 60224   | NS:              | S          |
| API:               | 16009020370000  | FEW:             | 1250       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.038737  |
| No:                | 42  | Longitude:       | -86.07093  |
| Section:           | 15  | Rec Lat NAD1927: | 37.038689  |
| Surface Elevation: | 730.0   | Rec Lon NAD1927: | -86.070948 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, G W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21345">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21345</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 723.84         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 21346   | FNS:             | 600        |
| KGS Permit:        | 60223   | NS:              | S          |
| API:               | 16009020380000  | FEW:             | 1075       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.035029  |
| No:                | 42  | Longitude:       | -86.07033  |
| Section:           | 15  | Rec Lat NAD1927: | 37.034981  |
| Surface Elevation: | 721.0   | Rec Lon NAD1927: | -86.070349 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | BELLAMY, G W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21346">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21346</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 670.91         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 100440         | FNS:             | 1765       |
| KGS Permit:        | 79382          | NS:              | N          |
| API:               | 16009006850000 | FEW:             | 825        |
| ORG Well No:       | 3              | EW:              | W          |
| Bore Type:         | V              | Latitude:        | 37.061867  |
| No:                | 42             | Longitude:       | -86.063819 |
| Section:           | 7              | Rec Lat NAD1927: | 37.061819  |
| Surface Elevation: | 670.0          | Rec Lon NAD1927: | -86.063839 |

## Wells and Additional Sources Detail Report

County: BARREN ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: ZIMMERMAN, STANLEY G  
 ORG Farm: BELLAMY, G W  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=100440>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 648.44         | OGW |

KGS Rec No: 100626 FNS: 1300  
 KGS Permit: 79540 NS: N  
 API: 16009006910000 FEW: 1000  
 ORG Well No: 2 EW: W  
 Bore Type: V Latitude: 37.063144  
 No: 42 Longitude: -86.063219  
 Section: 7 Rec Lat NAD1927: 37.063096  
 Surface Elevation: 650.0 Rec Lon NAD1927: -86.06324  
 County: BARREN ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: ZIMMERMAN, STANLEY G  
 ORG Farm: BELLAMY, EMMA  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=100626>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 639.75         | OGW |

KGS Rec No: 90802 FNS: 1450  
 KGS Permit: 78397 NS: N  
 API: 16009017660000 FEW: 1200  
 ORG Well No: 1 EW: W  
 Bore Type: V Latitude: 37.062732  
 No: 42 Longitude: -86.062534  
 Section: 7 Rec Lat NAD1927: 37.062684  
 Surface Elevation: 640.0 Rec Lon NAD1927: -86.062554  
 County: BARREN ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: ZIMMERMAN, STANLEY G  
 ORG Farm: BELLAMY, EMMA  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=90802>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 652.12         | OGW |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 69533   | FNS:             | 3000       |
| KGS Permit:        | 53243   | NS:              | S          |
| API:               | 16061004630000  | FEW:             | 1050       |
| ORG Well No:       | 3C  | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.058287  |
| No:                | 41  | Longitude:       | -86.096382 |
| Section:           | 10  | Rec Lat NAD1927: | 37.058239  |
| Surface Elevation: | 650.0   | Rec Lon NAD1927: | -86.096402 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69533">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69533</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 1       | -         | 0.00          | 0.00          | 711.68         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2001299   | FNS:             | 2800       |
| KGS Permit:        | 5754  | NS:              | N          |
| API:               |   | FEW:             | 150        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.02569   |
| No:                | 42  | Longitude:       | -86.082801 |
| Section:           | 16  | Rec Lat NAD1927: | 37.025642  |
| Surface Elevation: | 722.0   | Rec Lon NAD1927: | -86.082819 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | EVANS, M K  |                  |            |
| ORG Farm:          | WHITLOW, A J  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001299">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001299</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 2       | NNE       | 0.03          | 141.29        | 742.80         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 68002          | FNS:             | 1750       |
| KGS Permit:        | 72082          | NS:              | S          |
| API:               | 16009005210000 | FEW:             | 800        |
| ORG Well No:       | 1              | EW:              | W          |
| Bore Type:         | V              | Latitude:        | 37.054854  |
| No:                | 42             | Longitude:       | -86.063905 |
| Section:           | 7              | Rec Lat NAD1927: | 37.054806  |
| Surface Elevation: | 740.0          | Rec Lon NAD1927: | -86.063925 |
| County:            | BARREN         | ELOG:            |            |

## Wells and Additional Sources Detail Report

USGS Quad: PARK CITY Letter: G  
 ORG Operator: GLENN, HOMER & REX  
 ORG Farm: CAMPBELL, GEORGE  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68002>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 4       | NW        | 0.04          | 196.93        | 618.90         | OGW |

KGS Rec No: 140685 FNS: 2702  
 KGS Permit: 107598 NS: N  
 API: 16061008300000 FEW: 439  
 ORG Well No: 4RS EW: W  
 Bore Type: V Latitude: 37.059293  
 No: 41 Longitude: -86.098476  
 Section: 10 Rec Lat NAD1927: 37.05925  
 Surface Elevation: 624.0 Rec Lon NAD1927: -86.0985  
 County: EDMONSON ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: RICK-ROD OIL COMPANY, INC  
 ORG Farm: SMITH, ROGER  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=140685>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 5       | N         | 0.05          | 256.70        | 733.26         | OGW |

KGS Rec No: 21344 FNS: 2650  
 KGS Permit: 60222 NS: N  
 API: 16009012020000 FEW: 2125  
 ORG Well No: 4B EW: E  
 Bore Type: V Latitude: 37.042769  
 No: 42 Longitude: -86.073928  
 Section: 15 Rec Lat NAD1927: 37.042721  
 Surface Elevation: 730.0 Rec Lon NAD1927: -86.073946  
 County: BARREN ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: CREEKSIDE DRILLING  
 ORG Farm: BELLAMY, CHARLIE  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21344>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 6       | N         | 0.06          | 299.07        | 732.17         | OGW |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 67020   | FNS:             | 2700       |
| KGS Permit:        | 71731   | NS:              | N          |
| API:               | 16009015680000  | FEW:             | 2140       |
| ORG Well No:       | B3  | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.042632  |
| No:                | 42  | Longitude:       | -86.073979 |
| Section:           | 15  | Rec Lat NAD1927: | 37.042584  |
| Surface Elevation: | 733.0   | Rec Lon NAD1927: | -86.073997 |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | GLENN, HOMER & REX  |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67020">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67020</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 7       | NW        | 0.06          | 339.53        | 697.13         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 60387   | FNS:             | 2950       |
| KGS Permit:        | 53247   | NS:              | S          |
| API:               | 16009007130000  | FEW:             | 2125       |
| ORG Well No:       | B1  | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.041483  |
| No:                | 42  | Longitude:       | -86.076034 |
| Section:           | 15  | Rec Lat NAD1927: | 37.041435  |
| Surface Elevation: | 700.0   | Rec Lon NAD1927: | -86.076053 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=60387">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=60387</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 8       | NNW       | 0.06          | 341.12        | 721.59         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 60386          | FNS:             | 2550       |
| KGS Permit:        | 53709          | NS:              | N          |
| API:               | 16009007140000 | FEW:             | 2150       |
| ORG Well No:       | B2             | EW:              | W          |
| Bore Type:         | V              | Latitude:        | 37.043044  |
| No:                | 42             | Longitude:       | -86.075948 |
| Section:           | 15             | Rec Lat NAD1927: | 37.042996  |
| Surface Elevation: | 720.0          | Rec Lon NAD1927: | -86.075968 |
| County:            | BARREN         | ELOG:            |            |
| USGS Quad:         | PARK CITY      | Letter:          | G          |



## Wells and Additional Sources Detail Report

ORG Operator: LOBB, KENNETH  
 ORG Farm: BELLAMY, CHARLIE  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=60386>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 9       | SSW       | 0.07          | 361.30        | 728.05         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 32053   | FNS:             | 1225       |
| KGS Permit:        | 58278   | NS:              | N          |
| API:               | 16009019390000  | FEW:             | 300        |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.013349  |
| No:                | 41  | Longitude:       | -86.084343 |
| Section:           | 21  | Rec Lat NAD1927: | 37.013302  |
| Surface Elevation: | 728.0   | Rec Lon NAD1927: | -86.08436  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | JOHNSON, HAROLD T   |                  |            |
| ORG Farm:          | GRAY, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=32053">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=32053</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 10      | WSW       | 0.07          | 365.64        | 699.07         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2001194   | FNS:             | 1400       |
| KGS Permit:        | 30978   | NS:              | S          |
| API:               | 16009024510000  | FEW:             | 1200       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.037226  |
| No:                | 41  | Longitude:       | -86.087426 |
| Section:           | 11  | Rec Lat NAD1927: | 37.037178  |
| Surface Elevation: | 703.0   | Rec Lon NAD1927: | -86.087444 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | FARRIS, HENRY   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001194">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001194</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 11      | WNW       | 0.07          | 385.72        | 658.00         | OGW |

|             |       |      |      |
|-------------|-------|------|------|
| KGS Rec No: | 57764 | FNS: | 2320 |
|-------------|-------|------|------|

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Permit:        | 68852   | NS:              | N          |
| API:               | 16009014900000  | FEW:             | 1500       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.043675  |
| No:                | 41  | Longitude:       | -86.094842 |
| Section:           | 11  | Rec Lat NAD1927: | 37.043628  |
| Surface Elevation: | 657.0   | Rec Lon NAD1927: | -86.094861 |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | BLACK GOLD OIL CO DBA C & L EXPL  |                  |            |
| ORG Farm:          | WILLIAMS, NATHAN  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=57764">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=57764</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 12      | NNE       | 0.08          | 397.66        | 637.64         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 49332   | FNS:             | 720        |
| KGS Permit:        | 59994   | NS:              | N          |
| API:               | 16009006400000  | FEW:             | 1000       |
| ORG Well No:       | 8   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.064737  |
| No:                | 42  | Longitude:       | -86.063219 |
| Section:           | 7   | Rec Lat NAD1927: | 37.064689  |
| Surface Elevation: | 646.0   | Rec Lon NAD1927: | -86.06324  |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | L L MORRIS SUPPLY CO  |                  |            |
| ORG Farm:          | CARY, CLYDE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=49332">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=49332</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 13      | NW        | 0.08          | 407.54        | 616.68         | OGW |

|                    |                    |                  |            |
|--------------------|--------------------|------------------|------------|
| KGS Rec No:        | 149696             | FNS:             | 2489       |
| KGS Permit:        | N18135             | NS:              | N          |
| API:               | 16061008250000     | FEW:             | 125        |
| ORG Well No:       | 4                  | EW:              | W          |
| Bore Type:         | V                  | Latitude:        | 37.059878  |
| No:                | 41                 | Longitude:       | -86.099552 |
| Section:           | 10                 | Rec Lat NAD1927: | 37.059829  |
| Surface Elevation: | 0.0                | Rec Lon NAD1927: | -86.099571 |
| County:            | EDMONSON           | ELOG:            |            |
| USGS Quad:         | PARK CITY          | Letter:          | G          |
| ORG Operator:      | SMITH, LORETTA SUE |                  |            |

## Wells and Additional Sources Detail Report

ORG Farm: SMITH, ROGER  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=149696>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 14      | NNE       | 0.09          | 456.82        | 668.52         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 114689  | FNS:             | 800        |
| KGS Permit:        | N21247  | NS:              | N          |
| API:               | 16009018460000  | FEW:             | 625        |
| ORG Well No:       | 7   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.064518  |
| No:                | 42  | Longitude:       | -86.064504 |
| Section:           | 7   | Rec Lat NAD1927: | 37.064469  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.064525 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MORRIS OIL CO, INC  |                  |            |
| ORG Farm:          | CARY, CLYDE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114689">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114689</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 16      | NNE       | 0.09          | 482.23        | 734.44         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 68418   | FNS:             | 640        |
| KGS Permit:        | 72313   | NS:              | S          |
| API:               | 16009015740000  | FEW:             | 660        |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.051806  |
| No:                | 42  | Longitude:       | -86.064385 |
| Section:           | 7   | Rec Lat NAD1927: | 37.051757  |
| Surface Elevation: | 741.0   | Rec Lon NAD1927: | -86.064405 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | GLENN, HOMER & REX  |                  |            |
| ORG Farm:          | CAMPBELL, GEORGE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68418">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=68418</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 17      | SW        | 0.09          | 489.73        | 711.76         | OGW |

|             |       |      |      |
|-------------|-------|------|------|
| KGS Rec No: | 72908 | FNS: | 2025 |
| KGS Permit: | 73747 | NS:  | N    |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| API:               | 16009019820000  | FEW:             | 1300       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.027819  |
| No:                | 41  | Longitude:       | -86.087768 |
| Section:           | 20  | Rec Lat NAD1927: | 37.027771  |
| Surface Elevation: | 715.0   | Rec Lon NAD1927: | -86.087785 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | SMITH, JAMES W  |                  |            |
| ORG Farm:          | HOWARD, JAMES H   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=72908">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=72908</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 18      | N         | 0.10          | 535.39        | 685.22         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 67637   | FNS:             | 2560       |
| KGS Permit:        | 71986   | NS:              | N          |
| API:               | 16009019240000  | FEW:             | 1150       |
| ORG Well No:       | 6   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.059683  |
| No:                | 42  | Longitude:       | -86.070587 |
| Section:           | 6   | Rec Lat NAD1927: | 37.059635  |
| Surface Elevation: | 689.0   | Rec Lon NAD1927: | -86.070607 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | GUILFOIL, B A   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67637">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67637</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 19      | NW        | 0.12          | 630.21        | 612.22         | OGW |

|                    |                                 |                  |            |
|--------------------|---------------------------------|------------------|------------|
| KGS Rec No:        | 102327                          | FNS:             | 2310       |
| KGS Permit:        | 80747                           | NS:              | N          |
| API:               | 16061005280000                  | FEW:             | 50         |
| ORG Well No:       | 1                               | EW:              | E          |
| Bore Type:         | V                               | Latitude:        | 37.06037   |
| No:                | 41                              | Longitude:       | -86.100152 |
| Section:           | 9                               | Rec Lat NAD1927: | 37.060322  |
| Surface Elevation: | 604.0                           | Rec Lon NAD1927: | -86.100171 |
| County:            | EDMONSON                        | ELOG:            |            |
| USGS Quad:         | PARK CITY                       | Letter:          | G          |
| ORG Operator:      | HERITAGE OIL PARTNERS           |                  |            |
| ORG Farm:          | HUDDLESTON, GENE & DAVID WATERS |                  |            |

## Wells and Additional Sources Detail Report

R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=102327>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 20      | SW        | 0.12          | 631.87        | 714.02         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 38341   | FNS:             | 1550       |
| KGS Permit:        | 62949   | NS:              | N          |
| API:               | 16009023500000  | FEW:             | 1850       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.029123  |
| No:                | 41  | Longitude:       | -86.089652 |
| Section:           | 20  | Rec Lat NAD1927: | 37.029076  |
| Surface Elevation: | 714.0   | Rec Lon NAD1927: | -86.089669 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | BIDNEY, ROBERT P  |                  |            |
| ORG Farm:          | HOWARD, JAMES H   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=38341">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=38341</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 21      | NW        | 0.14          | 740.79        | 620.45         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2012428   | FNS:             | 2270       |
| KGS Permit:        | 28897   | NS:              | N          |
| API:               | 16061000800000  | FEW:             | 210        |
| ORG Well No:       | 3   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.060479  |
| No:                | 41  | Longitude:       | -86.1007   |
| Section:           | 9   | Rec Lat NAD1927: | 37.060432  |
| Surface Elevation: | 599.0   | Rec Lon NAD1927: | -86.100719 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | FARRIS, HENRY   |                  |            |
| ORG Farm:          | EMERSON, RONDAL   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012428">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012428</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 22      | NW        | 0.15          | 773.32        | 620.24         | OGW |

|             |                |      |      |
|-------------|----------------|------|------|
| KGS Rec No: | 69732          | FNS: | 2150 |
| KGS Permit: | 53246          | NS:  | N    |
| API:        | 16061004620000 | FEW: | 1150 |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| ORG Well No:       | D1  | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.060809  |
| No:                | 41  | Longitude:       | -86.096039 |
| Section:           | 10  | Rec Lat NAD1927: | 37.060761  |
| Surface Elevation: | 625.0   | Rec Lon NAD1927: | -86.096059 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69732">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69732</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 23      | NNE       | 0.15          | 781.03        | 659.80         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 114687  | FNS:             | 500        |
| KGS Permit:        | N21246  | NS:              | N          |
| API:               | 16009018450000  | FEW:             | 500        |
| ORG Well No:       | 6   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.065341  |
| No:                | 42  | Longitude:       | -86.064933 |
| Section:           | 7   | Rec Lat NAD1927: | 37.065293  |
| Surface Elevation: | 650.0   | Rec Lon NAD1927: | -86.064953 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MORRIS OIL CO, INC  |                  |            |
| ORG Farm:          | CARY, CLYDE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114687">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114687</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 24      | NNE       | 0.15          | 807.87        | 668.29         | OGW |

|                    |  |                  |            |
|--------------------|--|------------------|------------|
| KGS Rec No:        | 114688   | FNS:             | 400        |
| KGS Permit:        | N21245   | NS:              | N          |
| API:               | 16009018440000   | FEW:             | 700        |
| ORG Well No:       | 5  | EW:              | W          |
| Bore Type:         | V  | Latitude:        | 37.065616  |
| No:                | 42   | Longitude:       | -86.064247 |
| Section:           | 7  | Rec Lat NAD1927: | 37.065568  |
| Surface Elevation: | 0.0  | Rec Lon NAD1927: | -86.064268 |
| County:            | BARREN   | ELOG:            |            |
| USGS Quad:         | PARK CITY  | Letter:          | G          |
| ORG Operator:      | MORRIS OIL CO, INC   |                  |            |
| ORG Farm:          | BRIDGES LEASE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated) |                  |            |



## Wells and Additional Sources Detail Report

Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114688>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 25      | N         | 0.16          | 852.55        | 675.45         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 64432   | FNS:             | 1930       |
| KGS Permit:        | 70783   | NS:              | N          |
| API:               | 16009015510000  | FEW:             | 1300       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.061414  |
| No:                | 42  | Longitude:       | -86.071101 |
| Section:           | 6   | Rec Lat NAD1927: | 37.061365  |
| Surface Elevation: | 677.0   | Rec Lon NAD1927: | -86.071121 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | GLENN, HOMER & REX  |                  |            |
| ORG Farm:          | GUILFOIL, B A   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=64432">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=64432</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 25      | N         | 0.16          | 852.55        | 675.45         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 155326  | FNS:             | 1930       |
| KGS Permit:        | N3328   | NS:              | N          |
| API:               | 16009005880000  | FEW:             | 1300       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.061414  |
| No:                | 42  | Longitude:       | -86.071101 |
| Section:           | 6   | Rec Lat NAD1927: | 37.06137   |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.07112  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | GLENN, HOMER & REX  |                  |            |
| ORG Farm:          | GUILFOIL  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=155326">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=155326</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 26      | WNW       | 0.17          | 878.91        | 666.68         | OGW |

|              |                |      |      |
|--------------|----------------|------|------|
| KGS Rec No:  | 69699          | FNS: | 137  |
| KGS Permit:  | 53245          | NS:  | S    |
| API:         | 16009015900000 | FEW: | 1475 |
| ORG Well No: | 1C             | EW:  | W    |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Bore Type:         | V   | Latitude:        | 37.050424  |
| No:                | 41  | Longitude:       | -86.094926 |
| Section:           | 10  | Rec Lat NAD1927: | 37.050376  |
| Surface Elevation: | 640.0   | Rec Lon NAD1927: | -86.094945 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | BELLAMY, CHARLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69699">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69699</a> |                  |            |

| Map Key            | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------------|-----------|---------------|---------------|----------------|-----|
| <a href="#">27</a> | WSW       | 0.17          | 894.62        | 701.23         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 69570   | FNS:             | 375        |
| KGS Permit:        | 72711   | NS:              | S          |
| API:               | 16009005480000  | FEW:             | 1300       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.034411  |
| No:                | 41  | Longitude:       | -86.087768 |
| Section:           | 11  | Rec Lat NAD1927: | 37.034363  |
| Surface Elevation: | 698.0   | Rec Lon NAD1927: | -86.087786 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | STINNETT, JOHN  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69570">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69570</a> |                  |            |

| Map Key            | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------------|-----------|---------------|---------------|----------------|-----|
| <a href="#">28</a> | W         | 0.20          | 1,035.68      | 650.00         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 50830   | FNS:             | 2800       |
| KGS Permit:        | 67244   | NS:              | N          |
| API:               | 16009002340000  | FEW:             | 900        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.042357  |
| No:                | 41  | Longitude:       | -86.096898 |
| Section:           | 11  | Rec Lat NAD1927: | 37.042309  |
| Surface Elevation: | 649.0   | Rec Lon NAD1927: | -86.096916 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MCMEANS, LARRY K  |                  |            |
| ORG Farm:          | PAYNE, V J  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50830">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50830</a> |                  |            |

## Wells and Additional Sources Detail Report

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| <a href="#">29</a> | NNE   | 0.20             | 1,046.80      | 682.05         | OGW |
| KGS Rec No:        | 2045  | FNS:             | 150           |                |     |
| KGS Permit:        | 38679   | NS:              | S             |                |     |
| API:               | 16009006750000  | FEW:             | 1520          |                |     |
| ORG Well No:       | 1   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.067127     |                |     |
| No:                | 42  | Longitude:       | -86.061436    |                |     |
| Section:           | 4   | Rec Lat NAD1927: | 37.067078     |                |     |
| Surface Elevation: | 683.0   | Rec Lon NAD1927: | -86.061457    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | PAGE BROTHERS SUPPLY CO   |                  |               |                |     |
| ORG Farm:          | GREY, HAZEL HEIRS   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2045">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2045</a> |                  |               |                |     |

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| <a href="#">30</a> | N   | 0.21             | 1,111.64      | 697.78         | OGW |
| KGS Rec No:        | 64431   | FNS:             | 2250          |                |     |
| KGS Permit:        | 70784   | NS:              | N             |                |     |
| API:               | 16009005890000  | FEW:             | 1660          |                |     |
| ORG Well No:       | 1   | EW:              | E             |                |     |
| Bore Type:         | V   | Latitude:        | 37.060535     |                |     |
| No:                | 42  | Longitude:       | -86.072335    |                |     |
| Section:           | 6   | Rec Lat NAD1927: | 37.060487     |                |     |
| Surface Elevation: | 699.0   | Rec Lon NAD1927: | -86.072354    |                |     |
| County:            | BARREN  | ELOG:            | ELOG          |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | GLENN, HOMER & REX  |                  |               |                |     |
| ORG Farm:          | GUILFOIL, B A   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=64431">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=64431</a> |                  |               |                |     |

| Map Key            | Direction      | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------------|----------------|---------------|---------------|----------------|-----|
| <a href="#">31</a> | NNE            | 0.22          | 1,155.08      | 635.09         | OGW |
| KGS Rec No:        | 114685         | FNS:          | 125           |                |     |
| KGS Permit:        | N21242         | NS:           | S             |                |     |
| API:               | 16009018410000 | FEW:          | 875           |                |     |
| ORG Well No:       | 1              | EW:           | W             |                |     |
| Bore Type:         | V              | Latitude:     | 37.067058     |                |     |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| No:                | 42  | Longitude:       | -86.063647 |
| Section:           | 4   | Rec Lat NAD1927: | 37.067009  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.063667 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MORRIS OIL CO, INC  |                  |            |
| ORG Farm:          | BRIDGES LEASE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114685">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114685</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 32      | NW        | 0.22          | 1,156.93      | 612.30         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2012430   | FNS:             | 2300       |
| KGS Permit:        | 2098  | NS:              | N          |
| API:               | 16061006300000  | FEW:             | 800        |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.060397  |
| No:                | 41  | Longitude:       | -86.102722 |
| Section:           | 9   | Rec Lat NAD1927: | 37.060349  |
| Surface Elevation: | 610.0   | Rec Lon NAD1927: | -86.102741 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | DENTON, MURRELL   |                  |            |
| ORG Farm:          | HIGGENBOTHAM  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012430">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012430</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 33      | NW        | 0.23          | 1,193.47      | 621.47         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 101610  | FNS:             | 2000       |
| KGS Permit:        | 1133  | NS:              | N          |
| API:               | 16061000670000  | FEW:             | 600        |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.061221  |
| No:                | 41  | Longitude:       | -86.102036 |
| Section:           | 9   | Rec Lat NAD1927: | 37.061173  |
| Surface Elevation: | 594.0   | Rec Lon NAD1927: | -86.102055 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | NASSIF, A M   |                  |            |
| ORG Farm:          | ISENBERG, OPAL  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=101610">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=101610</a> |                  |            |

## Wells and Additional Sources Detail Report

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 34                 | NNW   | 0.23             | 1,225.19      | 716.60         | OGW |
| KGS Rec No:        | 67010   | FNS:             | 3000          |                |     |
| KGS Permit:        | 71720   | NS:              | N             |                |     |
| API:               | 16061007610000  | FEW:             | 700           |                |     |
| ORG Well No:       | 1   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.058475     |                |     |
| No:                | 42  | Longitude:       | -86.080915    |                |     |
| Section:           | 6   | Rec Lat NAD1927: | 37.058427     |                |     |
| Surface Elevation: | 712.0   | Rec Lon NAD1927: | -86.080934    |                |     |
| County:            | EDMONSON  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | GLENN, HOMER & REX  |                  |               |                |     |
| ORG Farm:          | STINNETT, JOHN  |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67010">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67010</a> |                  |               |                |     |
| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
| 35                 | N   | 0.25             | 1,342.48      | 663.78         | OGW |
| KGS Rec No:        | 67127   | FNS:             | 1490          |                |     |
| KGS Permit:        | 71811   | NS:              | N             |                |     |
| API:               | 16009005050000  | FEW:             | 1650          |                |     |
| ORG Well No:       | 4   | EW:              | E             |                |     |
| Bore Type:         | V   | Latitude:        | 37.062622     |                |     |
| No:                | 42  | Longitude:       | -86.072301    |                |     |
| Section:           | 6   | Rec Lat NAD1927: | 37.062574     |                |     |
| Surface Elevation: | 665.0   | Rec Lon NAD1927: | -86.07232     |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |               |                |     |
| ORG Farm:          | GUILFOIL, B A   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67127">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67127</a> |                  |               |                |     |
| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
| 37                 | NNE   | 0.26             | 1,367.18      | 630.42         | OGW |
| KGS Rec No:        | 114686  | FNS:             | 200           |                |     |
| KGS Permit:        | N21243  | NS:              | S             |                |     |
| API:               | 16009018420000  | FEW:             | 600           |                |     |
| ORG Well No:       | 2   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.067264     |                |     |
| No:                | 42  | Longitude:       | -86.06459     |                |     |

## Wells and Additional Sources Detail Report

|                    |   |                  |           |
|--------------------|---|------------------|-----------|
| Section:           | 4   | Rec Lat NAD1927: | 37.067215 |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.06461 |
| County:            | BARREN  | ELOG:            |           |
| USGS Quad:         | PARK CITY   | Letter:          | G         |
| ORG Operator:      | MORRIS OIL CO, INC  |                  |           |
| ORG Farm:          | BRIDGES LEASE   |                  |           |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |           |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114686">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114686</a> |                  |           |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 38      | N         | 0.26          | 1,388.13      | 666.85         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 31296   | FNS:             | 550        |
| KGS Permit:        | 60072   | NS:              | N          |
| API:               | 16009021140000  | FEW:             | 1100       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.065204  |
| No:                | 42  | Longitude:       | -86.070416 |
| Section:           | 6   | Rec Lat NAD1927: | 37.065156  |
| Surface Elevation: | 664.0   | Rec Lon NAD1927: | -86.070435 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | GLENN, HOMER & REX  |                  |            |
| ORG Farm:          | BULL, JOHN  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31296">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31296</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 39      | NW        | 0.28          | 1,476.68      | 623.11         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 110762  | FNS:             | 1550       |
| KGS Permit:        | 42968   | NS:              | N          |
| API:               | 16061000540000  | FEW:             | 425        |
| ORG Well No:       | 4   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.062457  |
| No:                | 41  | Longitude:       | -86.101437 |
| Section:           | 9   | Rec Lat NAD1927: | 37.062409  |
| Surface Elevation: | 623.0   | Rec Lon NAD1927: | -86.101456 |
| County:            | DAVISS  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MANSFIELD, TROY   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110762">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110762</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---------|-----------|---------------|---------------|----------------|----|
|---------|-----------|---------------|---------------|----------------|----|



## Wells and Additional Sources Detail Report

40 NNE 0.28 1,488.14 689.89 OGW

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2048  | FNS:             | 820        |
| KGS Permit:        | 39922   | NS:              | N          |
| API:               |   | FEW:             | 1950       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.064463  |
| No:                | 42  | Longitude:       | -86.056662 |
| Section:           | 7   | Rec Lat NAD1927: | 37.064414  |
| Surface Elevation: | 689.0   | Rec Lon NAD1927: | -86.056681 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | PAGE BROTHERS SUPPLY CO   |                  |            |
| ORG Farm:          | STILTS, B   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2048">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2048</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 41      | NNE       | 0.29          | 1,522.75      | 623.86         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 114681  | FNS:             | 300        |
| KGS Permit:        | N21244  | NS:              | S          |
| API:               | 16009018430000  | FEW:             | 475        |
| ORG Well No:       | 4   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.067539  |
| No:                | 42  | Longitude:       | -86.065018 |
| Section:           | 4   | Rec Lat NAD1927: | 37.06749   |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.065038 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MORRIS OIL CO, INC  |                  |            |
| ORG Farm:          | BRIDGES LEASE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114681">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=114681</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 42      | S         | 0.31          | 1,648.71      | 750.24         | OGW |

|              |                |                  |           |
|--------------|----------------|------------------|-----------|
| KGS Rec No:  | 50193          | FNS:             | 1200      |
| KGS Permit:  | 67140          | NS:              | N         |
| API:         | 16009013270000 | FEW:             | 1190      |
| ORG Well No: | 1              | EW:              | W         |
| Bore Type:   | V              | Latitude:        | 37.013418 |
| No:          | 42             | Longitude:       | -86.07924 |
| Section:     | 25             | Rec Lat NAD1927: | 37.01337  |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Surface Elevation: | 750.0   | Rec Lon NAD1927: | -86.079258 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | TIGER AIR ROTARY, INC   |                  |            |
| ORG Farm:          | GRAY, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50193">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50193</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 43      | NW        | 0.33          | 1,725.01      | 629.01         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 150360  | FNS:             | 1600       |
| KGS Permit:        | N4547   | NS:              | N          |
| API:               | 16061000790000  | FEW:             | 950        |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.06232   |
| No:                | 41  | Longitude:       | -86.103236 |
| Section:           | 9   | Rec Lat NAD1927: | 37.062272  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.103236 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | TOMS, BOB   |                  |            |
| ORG Farm:          | ISENBERG, MAC   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=150360">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=150360</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 44      | W         | 0.34          | 1,798.22      | 646.07         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 50831   | FNS:             | 2350       |
| KGS Permit:        | 67243   | NS:              | S          |
| API:               | 16009002330000  | FEW:             | 610        |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.039835  |
| No:                | 41  | Longitude:       | -86.097891 |
| Section:           | 11  | Rec Lat NAD1927: | 37.039787  |
| Surface Elevation: | 646.0   | Rec Lon NAD1927: | -86.09791  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MCMEANS, LARRY K  |                  |            |
| ORG Farm:          | PAYNE, V J  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50831">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50831</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 45      | NNE       | 0.34          | 1,799.40      | 656.24         | OGW |

## Wells and Additional Sources Detail Report

|                    |   |                  |           |
|--------------------|---|------------------|-----------|
| KGS Rec No:        | 2044  | FNS:             | 800       |
| KGS Permit:        | 38616   | NS:              | S         |
| API:               | 16009006740000  | FEW:             | 810       |
| ORG Well No:       | 1   | EW:              | W         |
| Bore Type:         | V   | Latitude:        | 37.068912 |
| No:                | 42  | Longitude:       | -86.06387 |
| Section:           | 4   | Rec Lat NAD1927: | 37.068863 |
| Surface Elevation: | 661.0   | Rec Lon NAD1927: | -86.06389 |
| County:            | BARREN  | ELOG:            |           |
| USGS Quad:         | PARK CITY   | Letter:          | G         |
| ORG Operator:      | PAGE BROTHERS SUPPLY CO   |                  |           |
| ORG Farm:          | GREY, BILL  |                  |           |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |           |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2044">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2044</a> |                  |           |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 46      | S         | 0.35          | 1,844.34      | 739.79         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2056  | FNS:             | 1250       |
| KGS Permit:        | 41492   | NS:              | N          |
| API:               | 16009019360000  | FEW:             | 1475       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.013281  |
| No:                | 42  | Longitude:       | -86.078264 |
| Section:           | 25  | Rec Lat NAD1927: | 37.013233  |
| Surface Elevation: | 740.0   | Rec Lon NAD1927: | -86.078282 |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | NEMAHA RESOURCES, INC   |                  |            |
| ORG Farm:          | GRAY, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2056">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2056</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 47      | S         | 0.37          | 1,960.00      | 736.81         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 50256          | FNS:             | 600        |
| KGS Permit:        | 67113          | NS:              | N          |
| API:               | 16009013200000 | FEW:             | 1950       |
| ORG Well No:       | 3              | EW:              | E          |
| Bore Type:         | V              | Latitude:        | 37.015066  |
| No:                | 42             | Longitude:       | -86.073326 |
| Section:           | 25             | Rec Lat NAD1927: | 37.015018  |
| Surface Elevation: | 727.0          | Rec Lon NAD1927: | -86.073343 |



## Wells and Additional Sources Detail Report

County: BARREN ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: TIGER AIR ROTARY, INC  
 ORG Farm: GRAY, KENNETH  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50256>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 48      | N         | 0.37          | 1,969.34      | 701.31         | OGW |

KGS Rec No: 69042 FNS: 2700  
 KGS Permit: 72527 NS: N  
 API: 16061000480000 FEW: 1950  
 ORG Well No: 7 EW: W  
 Bore Type: V Latitude: 37.059299  
 No: 42 Longitude: -86.076631  
 Section: 6 Rec Lat NAD1927: 37.059251  
 Surface Elevation: 708.0 Rec Lon NAD1927: -86.076651  
 County: EDMONSON ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: CREEKSIDE DRILLING  
 ORG Farm: GUILFOIL, B A  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69042>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 49      | N         | 0.43          | 2,245.85      | 672.55         | OGW |

KGS Rec No: 67803 FNS: 720  
 KGS Permit: 72030 NS: N  
 API: 16061000470000 FEW: 2300  
 ORG Well No: 5 EW: E  
 Bore Type: V Latitude: 37.064737  
 No: 42 Longitude: -86.074528  
 Section: 6 Rec Lat NAD1927: 37.064689  
 Surface Elevation: 678.0 Rec Lon NAD1927: -86.074547  
 County: EDMONSON ELOG:  
 USGS Quad: PARK CITY Letter: G  
 ORG Operator: CREEKSIDE DRILLING  
 ORG Farm: GUILFOIL, B A  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67803>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 50      | N         | 0.43          | 2,272.75      | 662.69         | OGW |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 69222   | FNS:             | 2075       |
| KGS Permit:        | 72612   | NS:              | N          |
| API:               | 16061000500000  | FEW:             | 1300       |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.061015  |
| No:                | 42  | Longitude:       | -86.078858 |
| Section:           | 6   | Rec Lat NAD1927: | 37.060967  |
| Surface Elevation: | 655.0   | Rec Lon NAD1927: | -86.078878 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | STINNETT, JOHN  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69222">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=69222</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 51      | NW        | 0.43          | 2,289.63      | 589.15         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2012429   | FNS:             | 1200       |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 1350       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.063418  |
| No:                | 41  | Longitude:       | -86.104607 |
| Section:           | 9   | Rec Lat NAD1927: | 37.06337   |
| Surface Elevation: | 600.0   | Rec Lon NAD1927: | -86.104625 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | DENTON & CLARK  |                  |            |
| ORG Farm:          | HIGGENBOTHAM, LESLIE  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012429">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012429</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 52      | S         | 0.44          | 2,298.02      | 760.68         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 2057           | FNS:             | 100        |
| KGS Permit:        | 43027          | NS:              | N          |
| API:               | 16009019350000 | FEW:             | 1280       |
| ORG Well No:       | 2              | EW:              | E          |
| Bore Type:         | V              | Latitude:        | 37.01644   |
| No:                | 42             | Longitude:       | -86.071032 |
| Section:           | 25             | Rec Lat NAD1927: | 37.016392  |
| Surface Elevation: | 762.0          | Rec Lon NAD1927: | -86.071049 |
| County:            | BARREN         | ELOG:            | ELOG       |

## Wells and Additional Sources Detail Report

USGS Quad: PARK CITY Letter: G  
 ORG Operator: O'SHANTER DEVELOPMENT CO  
 ORG Farm: GRAY, KENNETH  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2057>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 54      | S         | 0.50          | 2,614.02      | 710.90         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2058  | FNS:             | 1820       |
| KGS Permit:        | 42123   | NS:              | S          |
| API:               | 16009024270000  | FEW:             | 400        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.005046  |
| No:                | 42  | Longitude:       | -86.081946 |
| Section:           | 25  | Rec Lat NAD1927: | 37.004998  |
| Surface Elevation: | 714.0   | Rec Lon NAD1927: | -86.081963 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE, JAMES F   |                  |            |
| ORG Farm:          | KINSLOW, ROBERT   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2058">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2058</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 55      | NW        | 0.50          | 2,646.79      | 604.68         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 8248  | FNS:             | 1150       |
| KGS Permit:        | N245  | NS:              | N          |
| API:               | 16061000610000  | FEW:             | 1800       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.063555  |
| No:                | 41  | Longitude:       | -86.106149 |
| Section:           | 9   | Rec Lat NAD1927: | 37.063508  |
| Surface Elevation: | 612.0   | Rec Lon NAD1927: | -86.106167 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | DENTON & DENTON DRILLING CO   |                  |            |
| ORG Farm:          | HIGGINBOTHAM, LES   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=8248">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=8248</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 57      | NE        | 0.52          | 2,766.17      | 685.00         | OGW |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2049  | FNS:             | 2550       |
| KGS Permit:        | 39921   | NS:              | S          |
| API:               |   | FEW:             | 860        |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.057052  |
| No:                | 42  | Longitude:       | -86.052927 |
| Section:           | 7   | Rec Lat NAD1927: | 37.057003  |
| Surface Elevation: | 688.0   | Rec Lon NAD1927: | -86.052946 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | PAGE BROTHERS SUPPLY CO   |                  |            |
| ORG Farm:          | WHEELER, EARL   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2049">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2049</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 58      | NNE       | 0.53          | 2,783.99      | 619.88         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2001291   | FNS:             | 4300       |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 600        |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.071571  |
| No:                | 42  | Longitude:       | -86.064589 |
| Section:           | 4   | Rec Lat NAD1927: | 37.071523  |
| Surface Elevation: | 620.0   | Rec Lon NAD1927: | -86.06461  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | UNKNOWN   |                  |            |
| ORG Farm:          | WILSON, A K   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001291">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001291</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 59      | NW        | 0.53          | 2,786.57      | 603.43         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 2012433        | FNS:             | 110        |
| KGS Permit:        | 31702          | NS:              | N          |
| API:               | 16061000520000 | FEW:             | 0          |
| ORG Well No:       | 6              | EW:              | W          |
| Bore Type:         | V              | Latitude:        | 37.066412  |
| No:                | 41             | Longitude:       | -86.09998  |
| Section:           | 10             | Rec Lat NAD1927: | 37.066364  |
| Surface Elevation: | 608.0          | Rec Lon NAD1927: | -86.099999 |
| County:            | EDMONSON       | ELOG:            |            |
| USGS Quad:         | PARK CITY      | Letter:          | G          |

## Wells and Additional Sources Detail Report

ORG Operator: MANSFIELD, TROY  
 ORG Farm: LOBB, KENNETH  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012433>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 60      | N         | 0.54          | 2,860.12      | 622.79         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 67131   | FNS:             | 700        |
| KGS Permit:        | 71810   | NS:              | S          |
| API:               | 16061006260000  | FEW:             | 1910       |
| ORG Well No:       | 3   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.068637  |
| No:                | 42  | Longitude:       | -86.073193 |
| Section:           | 5   | Rec Lat NAD1927: | 37.068589  |
| Surface Elevation: | 625.0   | Rec Lon NAD1927: | -86.073212 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | CREEKSIDE DRILLING  |                  |            |
| ORG Farm:          | GUILFOIL, B A   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67131">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=67131</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 61      | NW        | 0.54          | 2,871.65      | 652.36         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 143295  | FNS:             | 257        |
| KGS Permit:        | 109637  | NS:              | N          |
| API:               | 16061008380000  | FEW:             | 952        |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.066008  |
| No:                | 41  | Longitude:       | -86.103243 |
| Section:           | 9   | Rec Lat NAD1927: | 37.06596   |
| Surface Elevation: | 660.0   | Rec Lon NAD1927: | -86.10326  |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | UPPALAPATI, NARISIMHARO   |                  |            |
| ORG Farm:          | WALTERS, DAVID J JR   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=143295">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=143295</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 62      | NNE       | 0.55          | 2,900.22      | 637.05         | OGW |

|             |         |      |      |
|-------------|---------|------|------|
| KGS Rec No: | 2001290 | FNS: | 2000 |
|-------------|---------|------|------|

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Permit:        | 5752  | NS:              | S          |
| API:               |   | FEW:             | 1200       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.072208  |
| No:                | 42  | Longitude:       | -86.062533 |
| Section:           | 4   | Rec Lat NAD1927: | 37.072159  |
| Surface Elevation: | 633.0   | Rec Lon NAD1927: | -86.062554 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | APPLEBY, CARL   |                  |            |
| ORG Farm:          | PARKER, JAMES R   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001290">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001290</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 63      | SW        | 0.56          | 2,954.90      | 668.99         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 82044   | FNS:             | 840        |
| KGS Permit:        | 75493   | NS:              | S          |
| API:               | 16009001180000  | FEW:             | 1540       |
| ORG Well No:       | 3   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.019021  |
| No:                | 41  | Longitude:       | -86.111374 |
| Section:           | 19  | Rec Lat NAD1927: | 37.018973  |
| Surface Elevation: | 668.0   | Rec Lon NAD1927: | -86.111392 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE & WARD OIL CO  |                  |            |
| ORG Farm:          | PEDIGO, DONALD  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82044">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82044</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 64      | NW        | 0.57          | 2,999.14      | 628.54         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 150117         | FNS:             | 50         |
| KGS Permit:        | 14269          | NS:              | S          |
| API:               | 16061000600000 | FEW:             | 400        |
| ORG Well No:       | 3-L            | EW:              | E          |
| Bore Type:         | V              | Latitude:        | 37.066851  |
| No:                | 41             | Longitude:       | -86.101351 |
| Section:           | 2              | Rec Lat NAD1927: | 37.0668    |
| Surface Elevation: | 0.0            | Rec Lon NAD1927: | -86.10137  |
| County:            | EDMONSON       | ELOG:            |            |
| USGS Quad:         | PARK CITY      | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH  |                  |            |



## Wells and Additional Sources Detail Report

ORG Farm: LOBB, KENNETH  
 R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=150117>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 64      | NW        | 0.57          | 2,999.14      | 628.54         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 135035  | FNS:             | 50         |
| KGS Permit:        |   | NS:              | S          |
| API:               |   | FEW:             | 400        |
| ORG Well No:       |   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.066851  |
| No:                | 41  | Longitude:       | -86.101351 |
| Section:           | 2   | Rec Lat NAD1927: | 37.066804  |
| Surface Elevation: | 628.0   | Rec Lon NAD1927: | -86.101371 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         |   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135035">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135035</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 65      | NW        | 0.57          | 3,011.76      | 621.54         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 135031  | FNS:             | 1900       |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 2650       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.061495  |
| No:                | 41  | Longitude:       | -86.109062 |
| Section:           | 9   | Rec Lat NAD1927: | 37.061448  |
| Surface Elevation: | 618.0   | Rec Lon NAD1927: | -86.109081 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         |   | Letter:          | G          |
| ORG Operator:      | BELCHER   |                  |            |
| ORG Farm:          | MADISON, LEON   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135031">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135031</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 66      | NE        | 0.59          | 3,095.28      | 671.93         | OGW |

|             |       |      |      |
|-------------|-------|------|------|
| KGS Rec No: | 31873 | FNS: | 1060 |
| KGS Permit: | 61638 | NS:  | N    |

## Wells and Additional Sources Detail Report

|                    |   |            |
|--------------------|---|------------|
| API:               | FEW:  | 320        |
| ORG Well No:       | EW:   | E          |
| Bore Type:         | Latitude:   | 37.063804  |
| No:                | Longitude:  | -86.051076 |
| Section:           | Rec Lat NAD1927:  | 37.063755  |
| Surface Elevation: | Rec Lon NAD1927:  | -86.051096 |
| County:            | ELOG:   |            |
| USGS Quad:         | Letter:   | G          |
| ORG Operator:      | JOHNSON, HAROLD T   |            |
| ORG Farm:          | STEWART, CHRIS  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31873">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31873</a> |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 67      | NW        | 0.59          | 3,117.92      | 617.99         | OGW |

|                    |   |            |
|--------------------|---|------------|
| KGS Rec No:        | FNS:  | 1983       |
| KGS Permit:        | NS:   | N          |
| API:               | FEW:  | 2075       |
| ORG Well No:       | EW:   | W          |
| Bore Type:         | Latitude:   | 37.061268  |
| No:                | Longitude:  | -86.109537 |
| Section:           | Rec Lat NAD1927:  | 37.06122   |
| Surface Elevation: | Rec Lon NAD1927:  | -86.10956  |
| County:            | ELOG:   | ELOG       |
| USGS Quad:         | Letter:   | G          |
| ORG Operator:      | PETRO-DRILL, INC  |            |
| ORG Farm:          | HIGGINBOTHAM, RUTH  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=141993">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=141993</a> |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 68      | NW        | 0.60          | 3,185.14      | 608.66         | OGW |

|                    |                  |            |
|--------------------|------------------|------------|
| KGS Rec No:        | FNS:             | 290        |
| KGS Permit:        | NS:              | S          |
| API:               | FEW:             | 10         |
| ORG Well No:       | EW:              | W          |
| Bore Type:         | Latitude:        | 37.067511  |
| No:                | Longitude:       | -86.099946 |
| Section:           | Rec Lat NAD1927: | 37.067463  |
| Surface Elevation: | Rec Lon NAD1927: | -86.099965 |
| County:            | ELOG:            |            |
| USGS Quad:         | Letter:          | G          |
| ORG Operator:      | MANSFIELD, TROY  |            |
| ORG Farm:          | LOBB, KENNETH    |            |

## Wells and Additional Sources Detail Report

R1.Desc: Conventional vertical well bore (not intentionally deviated)  
 Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012419>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 69      | NW        | 0.61          | 3,245.22      | 612.35         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 140684  | FNS:             | 143        |
| KGS Permit:        | 107597  | NS:              | S          |
| API:               | 16061008290000  | FEW:             | 960        |
| ORG Well No:       | 4RS   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.067107  |
| No:                | 41  | Longitude:       | -86.103271 |
| Section:           | 2   | Rec Lat NAD1927: | 37.06706   |
| Surface Elevation: | 625.0   | Rec Lon NAD1927: | -86.10329  |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | RICK-ROD OIL COMPANY, INC   |                  |            |
| ORG Farm:          | WATERS, DAVID   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=140684">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=140684</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 71      | NW        | 0.62          | 3,262.45      | 611.94         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 149698  | FNS:             | 280        |
| KGS Permit:        | N18149  | NS:              | S          |
| API:               | 16061008280000  | FEW:             | 578        |
| ORG Well No:       | 1-R   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.067483  |
| No:                | 41  | Longitude:       | -86.101961 |
| Section:           | 2   | Rec Lat NAD1927: | 37.067436  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.101982 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | UNKNOWN   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=149698">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=149698</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 72      | NW        | 0.62          | 3,287.16      | 609.88         | OGW |

|             |                |      |     |
|-------------|----------------|------|-----|
| KGS Rec No: | 142465         | FNS: | 184 |
| KGS Permit: | 108949         | NS:  | S   |
| API:        | 16061008370000 | FEW: | 971 |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.067219  |
| No:                | 41  | Longitude:       | -86.103308 |
| Section:           | 2   | Rec Lat NAD1927: | 37.06717   |
| Surface Elevation: | 614.0   | Rec Lon NAD1927: | -86.10333  |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | UPPALAPATI, NARISIMHARO   |                  |            |
| ORG Farm:          | WALTERS, DAVID J JR   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=142465">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=142465</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 74      | SW        | 0.67          | 3,525.98      | 691.20         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 82045   | FNS:             | 440        |
| KGS Permit:        | 75492   | NS:              | N          |
| API:               | 16009017040000  | FEW:             | 980        |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.015505  |
| No:                | 41  | Longitude:       | -86.113293 |
| Section:           | 22  | Rec Lat NAD1927: | 37.015458  |
| Surface Elevation: | 692.0   | Rec Lon NAD1927: | -86.11331  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE & WARD OIL CO  |                  |            |
| ORG Farm:          | PEDIGO, DONALD  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82045">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82045</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 75      | NW        | 0.68          | 3,588.61      | 566.61         | OGW |

|                    |  |                  |            |
|--------------------|--|------------------|------------|
| KGS Rec No:        | 135033   | FNS:             | 325        |
| KGS Permit:        |  | NS:              | S          |
| API:               |  | FEW:             | 1400       |
| ORG Well No:       | 1  | EW:              | E          |
| Bore Type:         | V  | Latitude:        | 37.067607  |
| No:                | 41   | Longitude:       | -86.104779 |
| Section:           | 2  | Rec Lat NAD1927: | 37.067559  |
| Surface Elevation: | 615.0  | Rec Lon NAD1927: | -86.104799 |
| County:            | EDMONSON   | ELOG:            |            |
| USGS Quad:         |  | Letter:          | G          |
| ORG Operator:      | ROUSE, P R   |                  |            |
| ORG Farm:          | MADISON?   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated) |                  |            |

## Wells and Additional Sources Detail Report

Images: <https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135033>

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 76      | NW        | 0.68          | 3,605.90      | 564.60         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 149697  | FNS:             | 415        |
| KGS Permit:        | N18136  | NS:              | S          |
| API:               | 16061008260000  | FEW:             | 1248       |
| ORG Well No:       | 1-R   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.067854  |
| No:                | 41  | Longitude:       | -86.104258 |
| Section:           | 2   | Rec Lat NAD1927: | 37.067806  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.104278 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | UNKNOWN   |                  |            |
| ORG Farm:          | WATERS, DAVID   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=149697">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=149697</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 78      | NW        | 0.69          | 3,649.65      | 597.77         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 150014  | FNS:             | 606        |
| KGS Permit:        | N19838  | NS:              | S          |
| API:               | 16061008390000  | FEW:             | 855        |
| ORG Well No:       | 2R  | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.068378  |
| No:                | 41  | Longitude:       | -86.102911 |
| Section:           | 2   | Rec Lat NAD1927: | 37.068332  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.102928 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | T R RESOURCES   |                  |            |
| ORG Farm:          | WALTERS, DAVID  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=150014">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=150014</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 80      | NW        | 0.73          | 3,855.79      | 558.78         | OGW |

|              |                |      |      |
|--------------|----------------|------|------|
| KGS Rec No:  | 135037         | FNS: | 760  |
| KGS Permit:  | 13913          | NS:  | S    |
| API:         | 16061000590000 | FEW: | 1050 |
| ORG Well No: | 2L             | EW:  | E    |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Bore Type:         | V   | Latitude:        | 37.068801  |
| No:                | 41  | Longitude:       | -86.103579 |
| Section:           | 2   | Rec Lat NAD1927: | 37.068754  |
| Surface Elevation: | 568.0   | Rec Lon NAD1927: | -86.103599 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         |   | Letter:          | G          |
| ORG Operator:      | LOBB, KENNETH   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135037">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135037</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 81      | NW        | 0.75          | 3,962.74      | 640.64         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 135032  | FNS:             | 2050       |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 1185       |
| ORG Well No:       | 2   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.061083  |
| No:                | 41  | Longitude:       | -86.112587 |
| Section:           | 9   | Rec Lat NAD1927: | 37.061036  |
| Surface Elevation: | 620.0   | Rec Lon NAD1927: | -86.112606 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         |   | Letter:          | G          |
| ORG Operator:      | L L MORRIS SUPPLY   |                  |            |
| ORG Farm:          | MADISON, LEON   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135032">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=135032</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 82      | S         | 0.76          | 4,029.35      | 735.46         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 57471   | FNS:             | 2575       |
| KGS Permit:        | 58873   | NS:              | N          |
| API:               | 16009014440000  | FEW:             | 1050       |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.009642  |
| No:                | 42  | Longitude:       | -86.070244 |
| Section:           | 25  | Rec Lat NAD1927: | 37.009594  |
| Surface Elevation: | 734.0   | Rec Lon NAD1927: | -86.070262 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | FURLONG, DOUG   |                  |            |
| ORG Farm:          | FURLONG, DOUGLAS  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=57471">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=57471</a> |                  |            |



## Wells and Additional Sources Detail Report

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 83                 | SSW   | 0.77             | 4,041.38      | 670.75         | OGW |
| KGS Rec No:        | 21343   | FNS:             | 20            |                |     |
| KGS Permit:        | 45229   | NS:              | S             |                |     |
| API:               |   | FEW:             | 2190          |                |     |
| ORG Well No:       | 1   | EW:              | W             |                |     |
| Bore Type:         | V   | Latitude:        | 37.000102     |                |     |
| No:                | 41  | Longitude:       | -86.092483    |                |     |
| Section:           | 21  | Rec Lat NAD1927: | 37.000054     |                |     |
| Surface Elevation: | 681.0   | Rec Lon NAD1927: | -86.092501    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | LOWE, WALLACE W   |                  |               |                |     |
| ORG Farm:          | PAYNE, MARION   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21343">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=21343</a> |                  |               |                |     |

| Map Key            | Direction   | Distance (mi)    | Distance (ft) | Elevation (ft) | DB  |
|--------------------|---|------------------|---------------|----------------|-----|
| 84                 | SSE   | 0.77             | 4,043.45      | 730.39         | OGW |
| KGS Rec No:        | 50255   | FNS:             | 1450          |                |     |
| KGS Permit:        | 67114   | NS:              | N             |                |     |
| API:               | 16009013210000  | FEW:             | 0             |                |     |
| ORG Well No:       | 2   | EW:              | E             |                |     |
| Bore Type:         | V   | Latitude:        | 37.012732     |                |     |
| No:                | 42  | Longitude:       | -86.066648    |                |     |
| Section:           | 25  | Rec Lat NAD1927: | 37.012684     |                |     |
| Surface Elevation: | 729.0   | Rec Lon NAD1927: | -86.066666    |                |     |
| County:            | BARREN  | ELOG:            |               |                |     |
| USGS Quad:         | PARK CITY   | Letter:          | G             |                |     |
| ORG Operator:      | TIGER AIR ROTARY, INC   |                  |               |                |     |
| ORG Farm:          | GRAY, KENNETH   |                  |               |                |     |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |               |                |     |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50255">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50255</a> |                  |               |                |     |

| Map Key      | Direction      | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--------------|----------------|---------------|---------------|----------------|-----|
| 85           | WSW            | 0.79          | 4,166.94      | 681.44         | OGW |
| KGS Rec No:  | 82492          | FNS:          | 1400          |                |     |
| KGS Permit:  | 75611          | NS:           | S             |                |     |
| API:         | 16009017060000 | FEW:          | 390           |                |     |
| ORG Well No: | 1              | EW:           | W             |                |     |
| Bore Type:   | V              | Latitude:     | 37.020559     |                |     |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| No:                | 41  | Longitude:       | -86.115313 |
| Section:           | 19  | Rec Lat NAD1927: | 37.020511  |
| Surface Elevation: | 689.0   | Rec Lon NAD1927: | -86.11533  |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE & WARD OIL CO  |                  |            |
| ORG Farm:          | CARTER, HAROLD W  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82492">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=82492</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 87      | SW        | 0.80          | 4,213.40      | 678.20         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 80662   | FNS:             | 490        |
| KGS Permit:        | 75056   | NS:              | N          |
| API:               | 16009000920000  | FEW:             | 290        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.015367  |
| No:                | 41  | Longitude:       | -86.115656 |
| Section:           | 22  | Rec Lat NAD1927: | 37.01532   |
| Surface Elevation: | 682.0   | Rec Lon NAD1927: | -86.115673 |
| County:            | BARREN  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE & WARD OIL CO  |                  |            |
| ORG Farm:          | PEDIGO, DONALD  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=80662">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=80662</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 88      | NW        | 0.80          | 4,218.27      | 576.74         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 110763  | FNS:             | 1325       |
| KGS Permit:        | 44114   | NS:              | S          |
| API:               | 16061000550000  | FEW:             | 10         |
| ORG Well No:       | 7   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.070353  |
| No:                | 41  | Longitude:       | -86.099946 |
| Section:           | 1   | Rec Lat NAD1927: | 37.070305  |
| Surface Elevation: | 585.0   | Rec Lon NAD1927: | -86.099965 |
| County:            | DAVISS  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MANSFIELD, TROY   |                  |            |
| ORG Farm:          | LOBB, KENNETH   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110763">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=110763</a> |                  |            |

## Wells and Additional Sources Detail Report

| Map Key  | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|--|-----------|---------------|---------------|----------------|-----|
| 91   | NE        | 0.82          | 4,338.11      | 635.82         | OGW |
| <div> <div>KGS Rec No:52525FNS:2410</div> <div>KGS Permit:67679NS:N</div> <div>API:16009013810000FEW:720</div> <div>ORG Well No:1EW:W</div> <div>Bore Type:VLatitude:37.060096</div> <div>No:42Longitude:-86.047512</div> <div>Section:8Rec Lat NAD1927:37.060047</div> <div>Surface Elevation:638.0Rec Lon NAD1927:-86.047532</div> <div>County:BARRENELOG:</div> <div>USGS Quad:PARK CITYLetter:G</div> <div>ORG Operator:GLASS, LARRY</div> <div>ORG Farm:STEWART, CHRISTOPHER</div> <div>R1.Desc:Conventional vertical well bore (not intentionally deviated)</div> <div>Images:<a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=52525">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=52525</a></div> </div> |           |               |               |                |     |
| Map Key  | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
| 92   | N         | 0.82          | 4,345.42      | 611.83         | OGW |
| <div> <div>KGS Rec No:44449FNS:1600</div> <div>KGS Permit:56672NS:S</div> <div>API:16061000570000FEW:1730</div> <div>ORG Well No:1EW:W</div> <div>Bore Type:VLatitude:37.071109</div> <div>No:42Longitude:-86.077383</div> <div>Section:5Rec Lat NAD1927:37.071061</div> <div>Surface Elevation:610.0Rec Lon NAD1927:-86.077404</div> <div>County:EDMONSONELOG:</div> <div>USGS Quad:PARK CITYLetter:G</div> <div>ORG Operator:CRUMP, ED LEE</div> <div>ORG Farm:CRUMP, ED LEE</div> <div>R1.Desc:Conventional vertical well bore (not intentionally deviated)</div> <div>Images:<a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=44449">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=44449</a></div> </div>    |           |               |               |                |     |
| Map Key  | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
| 93   | N         | 0.84          | 4,454.10      | 618.77         | OGW |
| <div> <div>KGS Rec No:2001293FNS:2910</div> <div>KGS Permit:NS:S</div> <div>API:FEW:1000</div> <div>ORG Well No:1EW:E</div> <div>Bore Type:VLatitude:37.074707</div> <div>No:42Longitude:-86.070073</div> </div>   |           |               |               |                |     |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Section:           | 5   | Rec Lat NAD1927: | 37.074659  |
| Surface Elevation: | 0.0   | Rec Lon NAD1927: | -86.070093 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | R E D OIL CO  |                  |            |
| ORG Farm:          | NEVILLE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001293">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001293</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 94      | S         | 0.86          | 4,526.56      | 693.40         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 50300   | FNS:             | 2450       |
| KGS Permit:        | 67145   | NS:              | S          |
| API:               | 16009022900000  | FEW:             | 1450       |
| ORG Well No:       | 2   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.006777  |
| No:                | 42  | Longitude:       | -86.071614 |
| Section:           | 25  | Rec Lat NAD1927: | 37.006729  |
| Surface Elevation: | 698.0   | Rec Lon NAD1927: | -86.071631 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | BLACK GOLD OIL CO DBA C & L EXPL  |                  |            |
| ORG Farm:          | FURLONG, DOUGLAS  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50300">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=50300</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 97      | NW        | 0.87          | 4,615.53      | 615.10         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 25048   | FNS:             | 1620       |
| KGS Permit:        | 60501   | NS:              | N          |
| API:               | 16061006240000  | FEW:             | 620        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.062264  |
| No:                | 41  | Longitude:       | -86.114523 |
| Section:           | 9   | Rec Lat NAD1927: | 37.062217  |
| Surface Elevation: | 615.0   | Rec Lon NAD1927: | -86.114542 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MCGREGOR OIL, INC   |                  |            |
| ORG Farm:          | EMERSON, RONALD   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=25048">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=25048</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---------|-----------|---------------|---------------|----------------|----|
|---------|-----------|---------------|---------------|----------------|----|

## Wells and Additional Sources Detail Report

98 S 0.88 4,621.87 709.50 OGW

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 45613   | FNS:             | 50         |
| KGS Permit:        | 57844   | NS:              | S          |
| API:               | 16009024190000  | FEW:             | 1350       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.000185  |
| No:                | 42  | Longitude:       | -86.078692 |
| Section:           | 25  | Rec Lat NAD1927: | 37.000137  |
| Surface Elevation: | 701.0   | Rec Lon NAD1927: | -86.07871  |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MEADOWS, KENNETH  |                  |            |
| ORG Farm:          | KINSLOW, HELEN  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=45613">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=45613</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 99      | NNW       | 0.88          | 4,622.53      | 657.84         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2012420   | FNS:             | 5100       |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 600        |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.069374  |
| No:                | 41  | Longitude:       | -86.08537  |
| Section:           | 1   | Rec Lat NAD1927: | 37.069326  |
| Surface Elevation: | 660.0   | Rec Lon NAD1927: | -86.085389 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | HUGHES, D   |                  |            |
| ORG Farm:          | MADISON, GEORGE   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012420">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2012420</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 100     | NW        | 0.90          | 4,732.23      | 620.12         | OGW |

|              |                |                  |            |
|--------------|----------------|------------------|------------|
| KGS Rec No:  | 43976          | FNS:             | 930        |
| KGS Permit:  | 64401          | NS:              | N          |
| API:         | 16061000330000 | FEW:             | 750        |
| ORG Well No: | 2              | EW:              | W          |
| Bore Type:   | V              | Latitude:        | 37.06416   |
| No:          | 41             | Longitude:       | -86.114077 |
| Section:     | 9              | Rec Lat NAD1927: | 37.064112  |

## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| Surface Elevation: | 615.0   | Rec Lon NAD1927: | -86.114096 |
| County:            | EDMONSON  | ELOG:            | ELOG       |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | MCGREGOR OIL, INC   |                  |            |
| ORG Farm:          | EMERSON, RONALD   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=43976">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=43976</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 101     | WSW       | 0.91          | 4,791.37      | 684.14         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2001198   | FNS:             | 330        |
| KGS Permit:        |   | NS:              | N          |
| API:               |   | FEW:             | 1500       |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.032474  |
| No:                | 41  | Longitude:       | -86.11151  |
| Section:           | 19  | Rec Lat NAD1927: | 37.032426  |
| Surface Elevation: | 685.0   | Rec Lon NAD1927: | -86.111529 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | WHITTINGHILL, FRANK T   |                  |            |
| ORG Farm:          | JOHNSON, J L  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001198">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001198</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 102     | SSW       | 0.92          | 4,857.48      | 705.72         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 31078   | FNS:             | 420        |
| KGS Permit:        | 45231   | NS:              | N          |
| API:               | 16009000490000  | FEW:             | 150        |
| ORG Well No:       | 1   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 36.998893  |
| No:                | 41  | Longitude:       | -86.099469 |
| Section:           | 1   | Rec Lat NAD1927: | 36.998846  |
| Surface Elevation: | 707.0   | Rec Lon NAD1927: | -86.099486 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | LUCAS   | Letter:          | F          |
| ORG Operator:      | LOWE, WALLACE W   |                  |            |
| ORG Farm:          | BARRICK, MARVIS   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31078">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31078</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 103     | NNW       | 0.94          | 4,939.47      | 602.09         | OGW |



## Wells and Additional Sources Detail Report

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 101613  | FNS:             | 2050       |
| KGS Permit:        | 13484   | NS:              | S          |
| API:               | 16061000580000  | FEW:             | 150        |
| ORG Well No:       | 1-L   | EW:              | W          |
| Bore Type:         | V   | Latitude:        | 37.072345  |
| No:                | 41  | Longitude:       | -86.099466 |
| Section:           | 1   | Rec Lat NAD1927: | 37.072297  |
| Surface Elevation: | 595.0   | Rec Lon NAD1927: | -86.099485 |
| County:            | EDMONSON  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | KENNETH, L A  |                  |            |
| ORG Farm:          | KENNETH LOBB  |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=101613">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=101613</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 104     | SW        | 0.95          | 5,016.76      | 620.70         | OGW |

|                    |   |                  |            |
|--------------------|---|------------------|------------|
| KGS Rec No:        | 2001201   | FNS:             | 1900       |
| KGS Permit:        | 34769   | NS:              | N          |
| API:               | 16009021250000  | FEW:             | 100        |
| ORG Well No:       | 1   | EW:              | E          |
| Bore Type:         | V   | Latitude:        | 37.011495  |
| No:                | 41  | Longitude:       | -86.116992 |
| Section:           | 23  | Rec Lat NAD1927: | 37.011448  |
| Surface Elevation: | 622.0   | Rec Lon NAD1927: | -86.117009 |
| County:            | BARREN  | ELOG:            |            |
| USGS Quad:         | PARK CITY   | Letter:          | G          |
| ORG Operator:      | LOWE, JAMES F   |                  |            |
| ORG Farm:          | CARTER, HOMER   |                  |            |
| R1.Desc:           | Conventional vertical well bore (not intentionally deviated)  |                  |            |
| Images:            | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001201">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=2001201</a> |                  |            |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB  |
|---------|-----------|---------------|---------------|----------------|-----|
| 105     | NE        | 0.99          | 5,228.60      | 684.69         | OGW |

|                    |                |                  |            |
|--------------------|----------------|------------------|------------|
| KGS Rec No:        | 31097          | FNS:             | 1600       |
| KGS Permit:        | 59611          | NS:              | N          |
| API:               | 16009017020000 | FEW:             | 1790       |
| ORG Well No:       | 1              | EW:              | W          |
| Bore Type:         | V              | Latitude:        | 37.062321  |
| No:                | 42             | Longitude:       | -86.043845 |
| Section:           | 8              | Rec Lat NAD1927: | 37.062272  |
| Surface Elevation: | 685.0          | Rec Lon NAD1927: | -86.043866 |

## Wells and Additional Sources Detail Report

|               |   |         |   |
|---------------|---|---------|---|
| County:       | BARREN  | ELOG:   |   |
| USGS Quad:    | PARK CITY   | Letter: | G |
| ORG Operator: | STIDHAM, WILLIAM J  |         |   |
| ORG Farm:     | HOUCHENS, PAUL  |         |   |
| R1.Desc:      | Conventional vertical well bore (not intentionally deviated)  |         |   |
| Images:       | <a href="https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31097">https://kgs.uky.edu/kygeode/services/oilgas/wellReport.asp?id=31097</a> |         |   |

## Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *BARREN* County: **1**

Federal EPA Radon Zone for *EDMONSON* County: **2**

*Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L*

*Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L*

*Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L*

---

### Federal Area Radon Information for *EDMONSON* County

|                      |   |
|----------------------|---|
| No Measures/Homes:   | 5   |
| Geometric Mean:      | 1.2   |
| Arithmetic Mean:     | 1.7   |
| Median:              | 0.9   |
| Standard Deviation:  | 1.7   |
| Maximum:             | 4.7   |
| % >4 pCi/L:          | 20  |
| % >20 pCi/L:         | 0   |
| Notes on Data Table: | TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of Kentucky conducted during 1986-87. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested. |

### Federal Area Radon Information for *BARREN* County

|                      |   |
|----------------------|---|
| No Measures/Homes:   | 7   |
| Geometric Mean:      | 1.1   |
| Arithmetic Mean:     | 1.2   |
| Median:              | 1.1   |
| Standard Deviation:  | 0.7   |
| Maximum:             | 2.5   |
| % >4 pCi/L:          | 0   |
| % >20 pCi/L:         | 0   |
| Notes on Data Table: | TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of Kentucky conducted during 1986-87. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested. |



## **Federal Sources**

### **FEMA National Flood Hazard Layer**

**FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

### **Indoor Radon Data**

**INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

### **Public Water Systems Violations and Enforcement Data**

**PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

### **Radon Zone Level**

**RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

### **Safe Drinking Water Information System (SDWIS)**

**SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

### **Soil Survey Geographic database**

**SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

### **U.S. Fish & Wildlife Service Wetland Data**

**US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

### **USGS Current Topo**

**US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

### **USGS Geology**

**US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

### **USGS National Water Information System**

**FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

### **Wells from NWIS**

**FED USGS**

The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well,

## Appendix

Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

### **State Sources**

#### **Kentucky Groundwater Data Repository**

List of records in the Kentucky Geological Survey's Water Well & Spring Records database. The Kentucky Groundwater Data Repository was initiated in 1990 by the Kentucky Geological Survey under mandate from the Kentucky legislature (KRS 151:035). The repository was established to archive and disseminate groundwater data collected by State agencies, other organizations, and independent researchers.

**WATER WELLS**

#### **Oil and Gas Wells**

Oil and Gas Wells Data made available by the Kentucky Geological Survey.

**OGW**

#### **Public Water Supply Wells**

The Public Water Supply Wells (PWSW) data consist of community water supply wells in Kentucky. This data was made available by Kentucky Department for Environmental Protection, Division of Water.

**PWSW**

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# **Appendix F**

## **Aerial Photographs**





# HISTORICAL AERIALS

**Project Property:** Wood Duck Phase I ESA

N/A

Smiths Grove KY

**Project No:** 237801898

**Requested By:** Cardno Inc.

**Order No:** 22121200544

**Date Completed:** December 19, 2022

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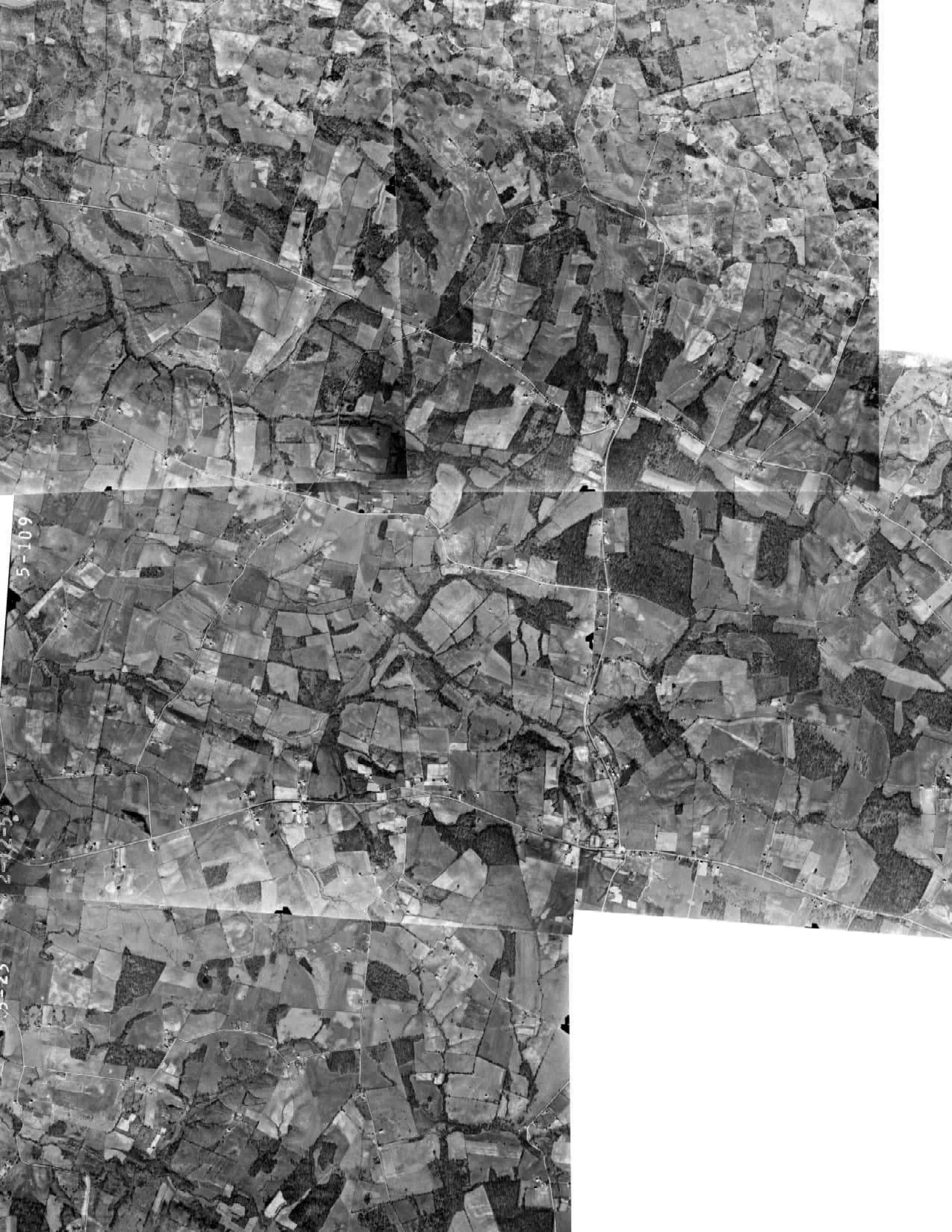
## **Environmental Risk Information Services**

*A division of Glacier Media Inc.*

1.866.517.5204 | [info@erisinfo.com](mailto:info@erisinfo.com) | [erisinfo.com](http://erisinfo.com)

| Date | Source  | Scale      | Comments                   |
|------|---|------------|----------------------------|
| 2020 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2018 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2016 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2014 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2010 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2008 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2006 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2004 | United States Department of Agriculture       | 1" = 2500' |                            |
| 2003 | United States Department of Agriculture       | 1" = 2500' |                            |
| 1993 | United States Geological Survey               | 1" = 2500' |                            |
| 1982 | United States Geological Survey               | 1" = 2500' |                            |
| 1973 | United States Geological Survey               | 1" = 2500' |                            |
| 1964 | Agricultural Stabilization & Conserv. Service | 1" = 2500' | Adjacent Frame Unavailable |
| 1954 | United States Geological Survey               | 1" = 2500' |                            |





5-109

2-17-54

3-23

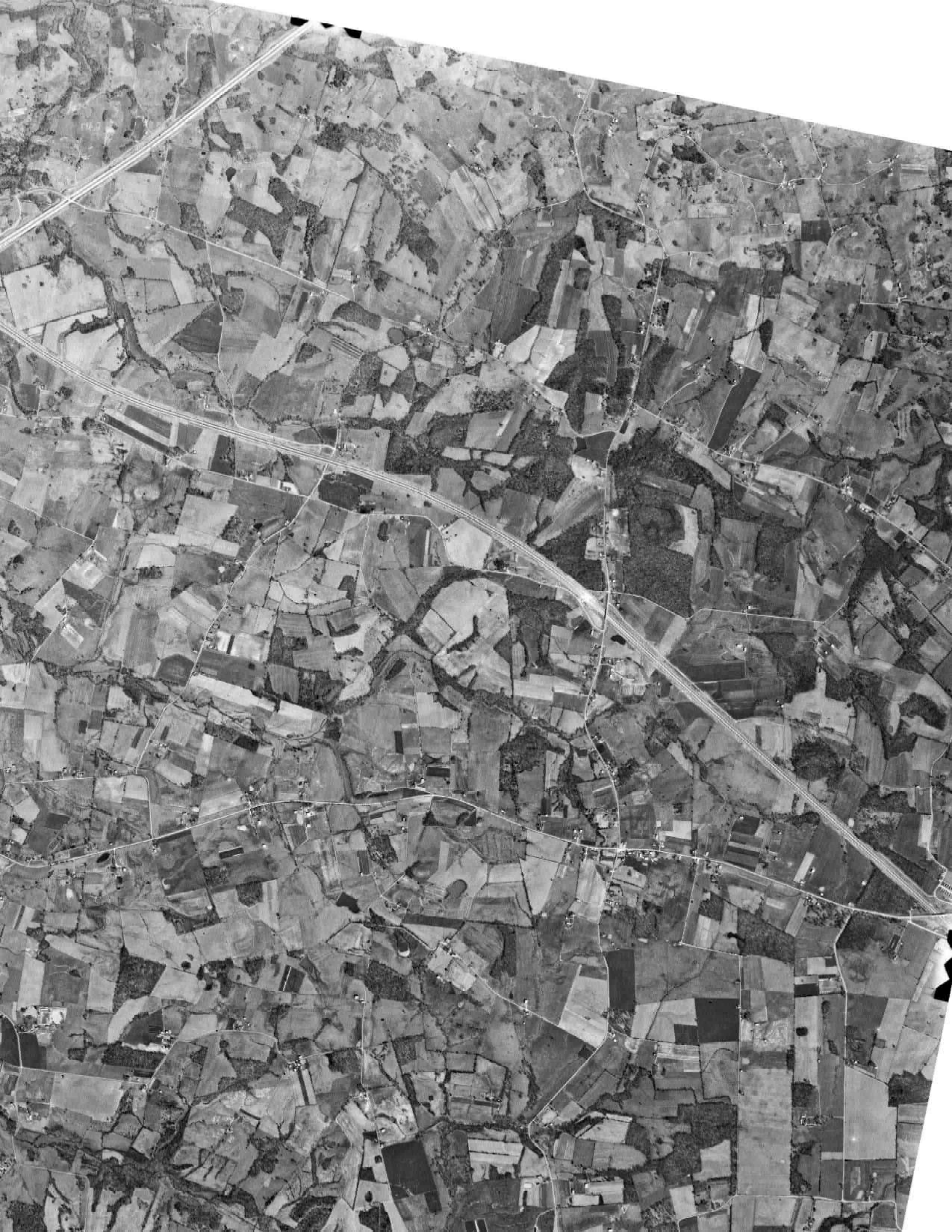
ALK 4EE-5

6-25-64

6-25-64







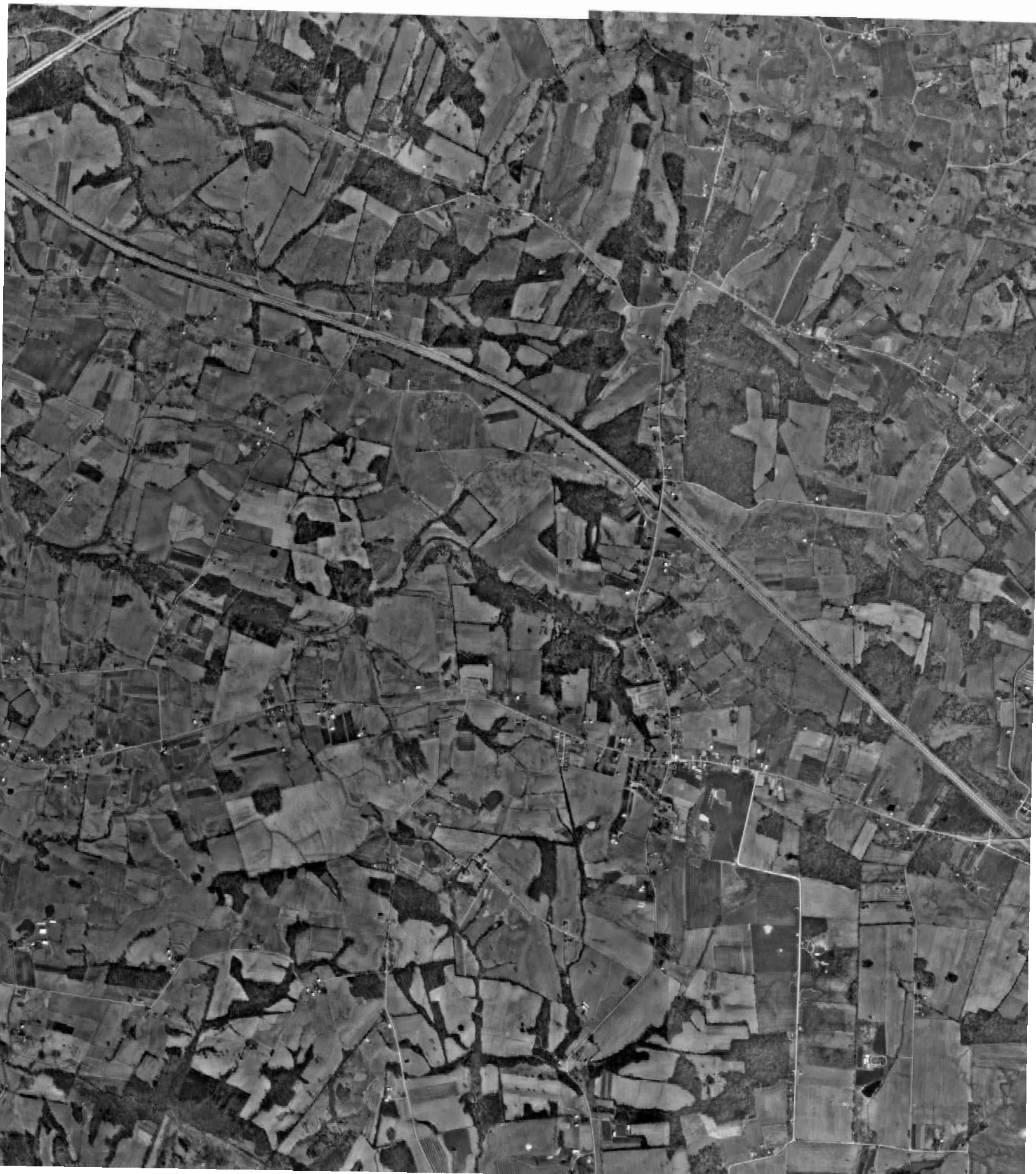


305-3

37









































# **Appendix G**

## **Topographic Maps**







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# TOPOGRAPHIC MAPS

|                          |  |
|--------------------------|--|
| <b>Project Property:</b> | Wood Duck Phase I ESA<br>N/A<br>Smiths Grove KY None |
| <b>Project No:</b>       | 237801898  |
| <b>Requested By:</b>     | Cardno Inc.  |
| <b>Order No:</b>         | 22121200544  |
| <b>Date Completed:</b>   | December 12, 2022                                    |

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

| Year | Map Series |
|------|------------|
| 2019 | 7.5        |
| 2016 | 7.5        |
| 2013 | 7.5        |
| 1973 | 7.5        |
| 1966 | 7.5        |
| 1954 | 7.5        |
| 1955 | 15         |
| 1923 | 15         |
| 1922 | 15         |

**Topographic Map Symbology for the maps may be available in the following documents:**

*Pre-1947*

[Page 223 of 1918 Topographic Instructions](#)

[Page 130 of 1928 Topographic Instructions](#)

*1947-2009*

[Topographic Map Symbols](#)

*2009-present*

[US Topo Map Symbols](#)

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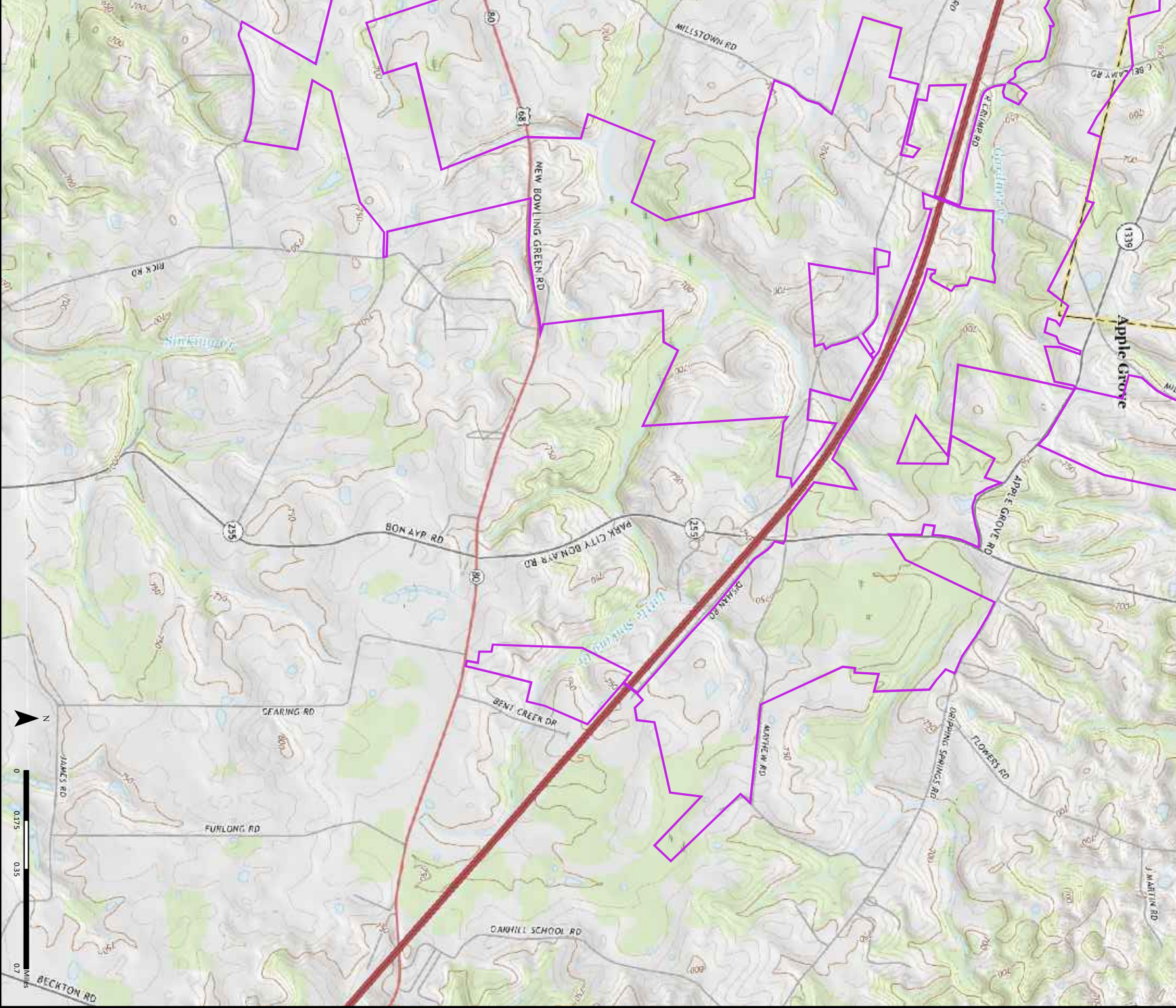
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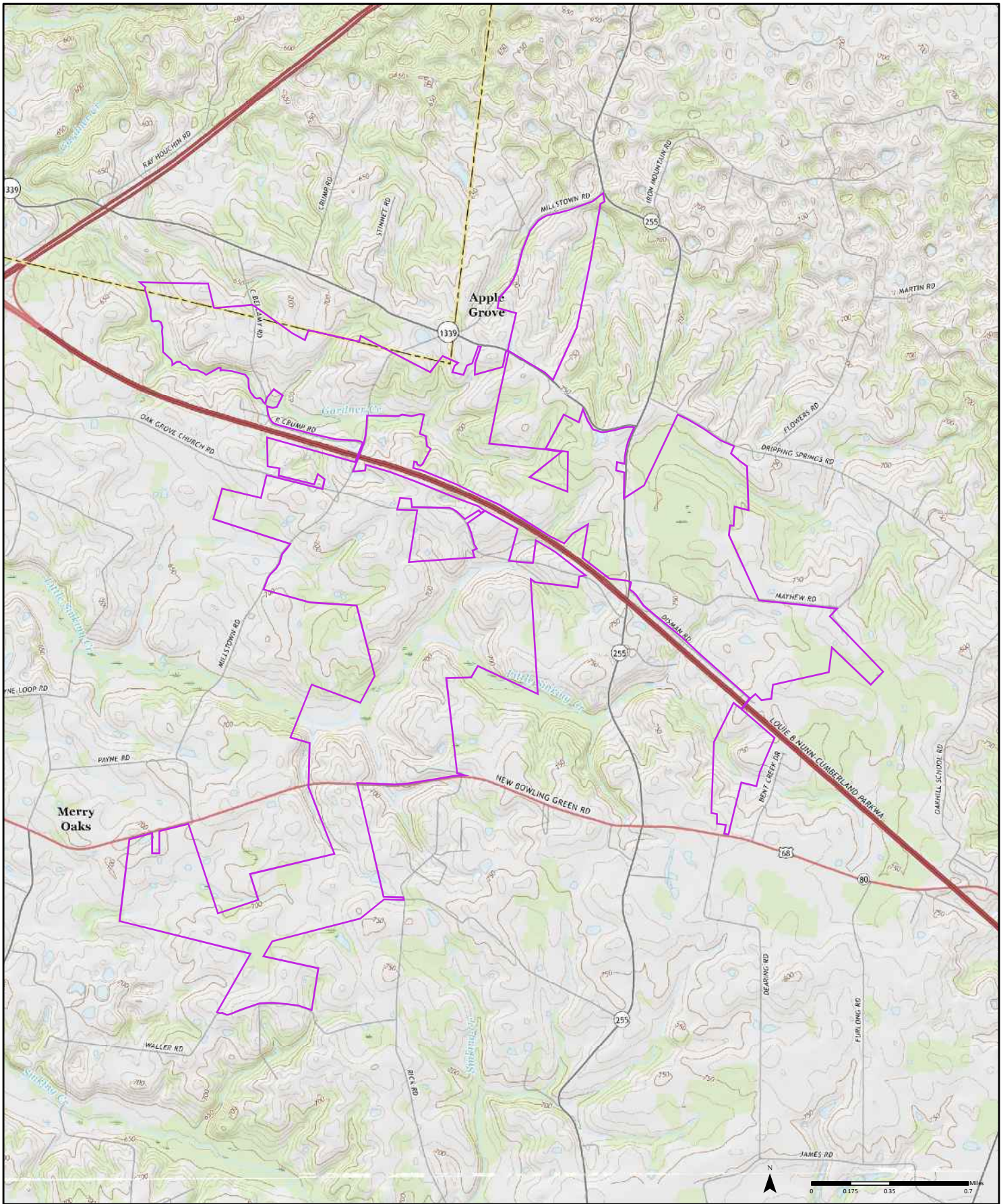


Order No. 22121200544

adrange(s): Park City, KY  
Lucas, KY

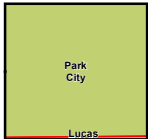






2016

Order No. 22121200544

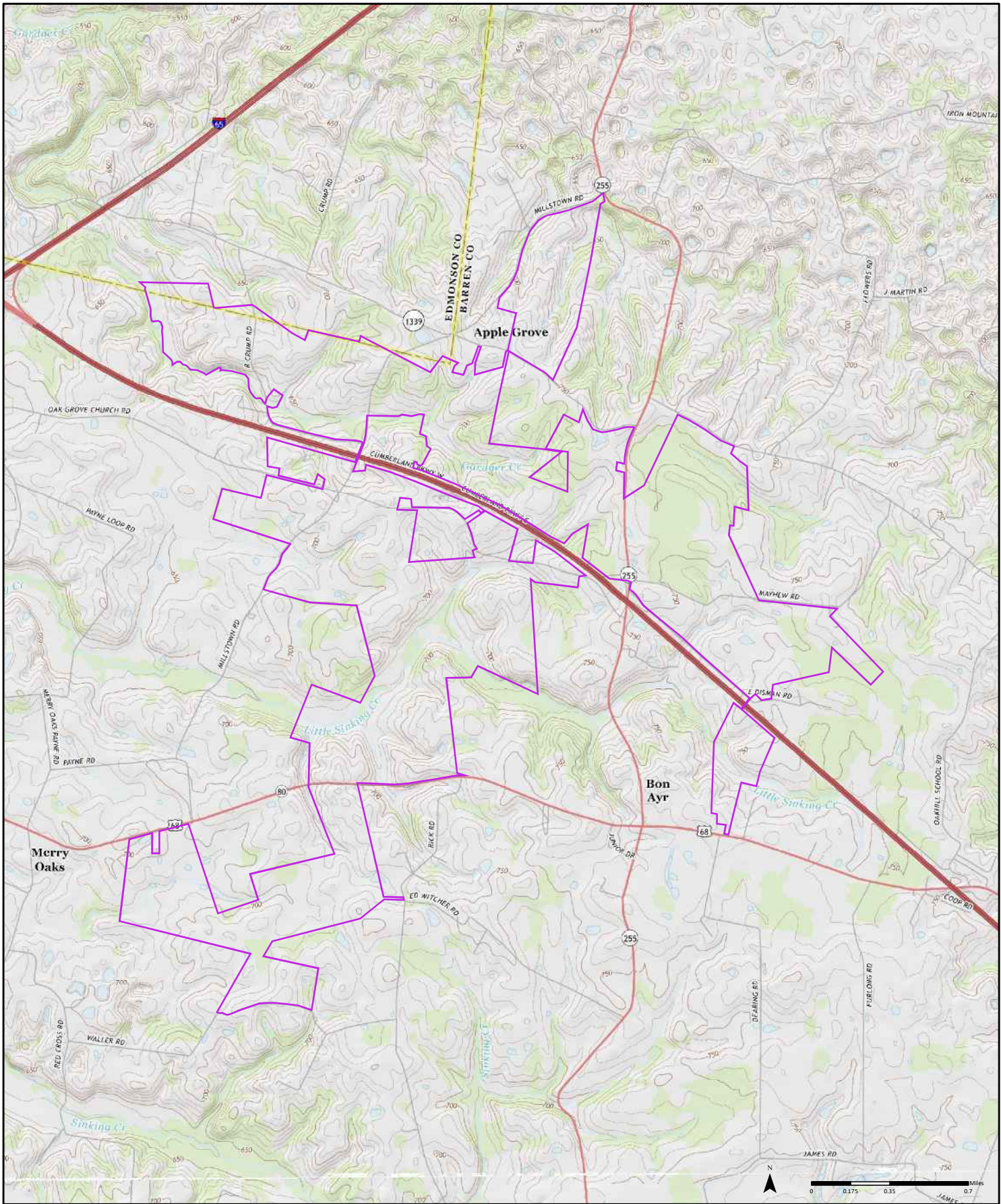


Available Quadrangle(s): Park City, KY  
Lucas, KY

Source: USGS 7.5 Minute Topographic Map

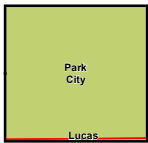






2013

Order No. 22121200544

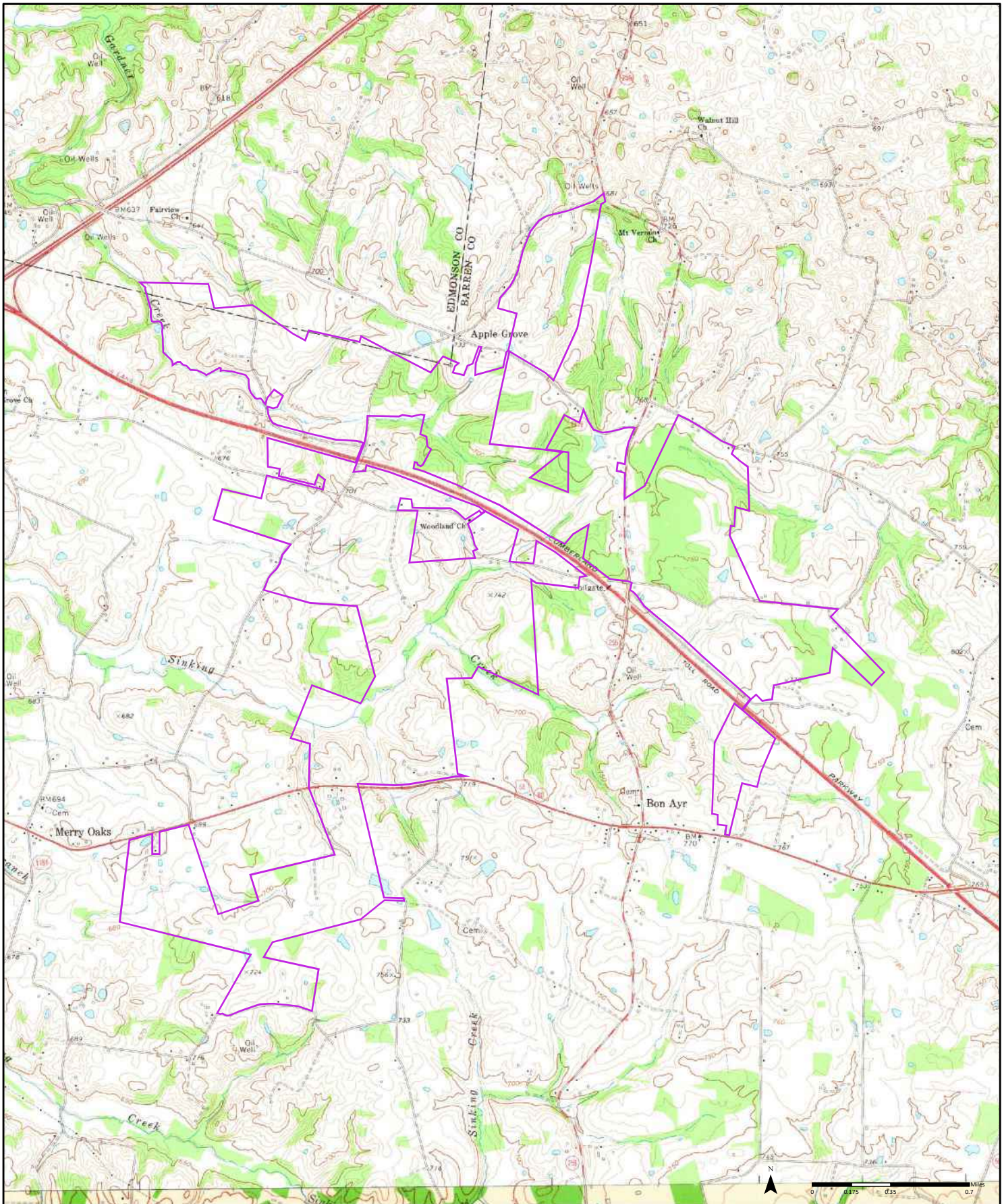


Available Quadrangle(s): Park City, KY  
Lucas, KY

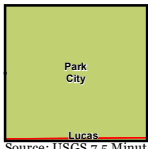
Source: USGS 7.5 Minute Topographic Map





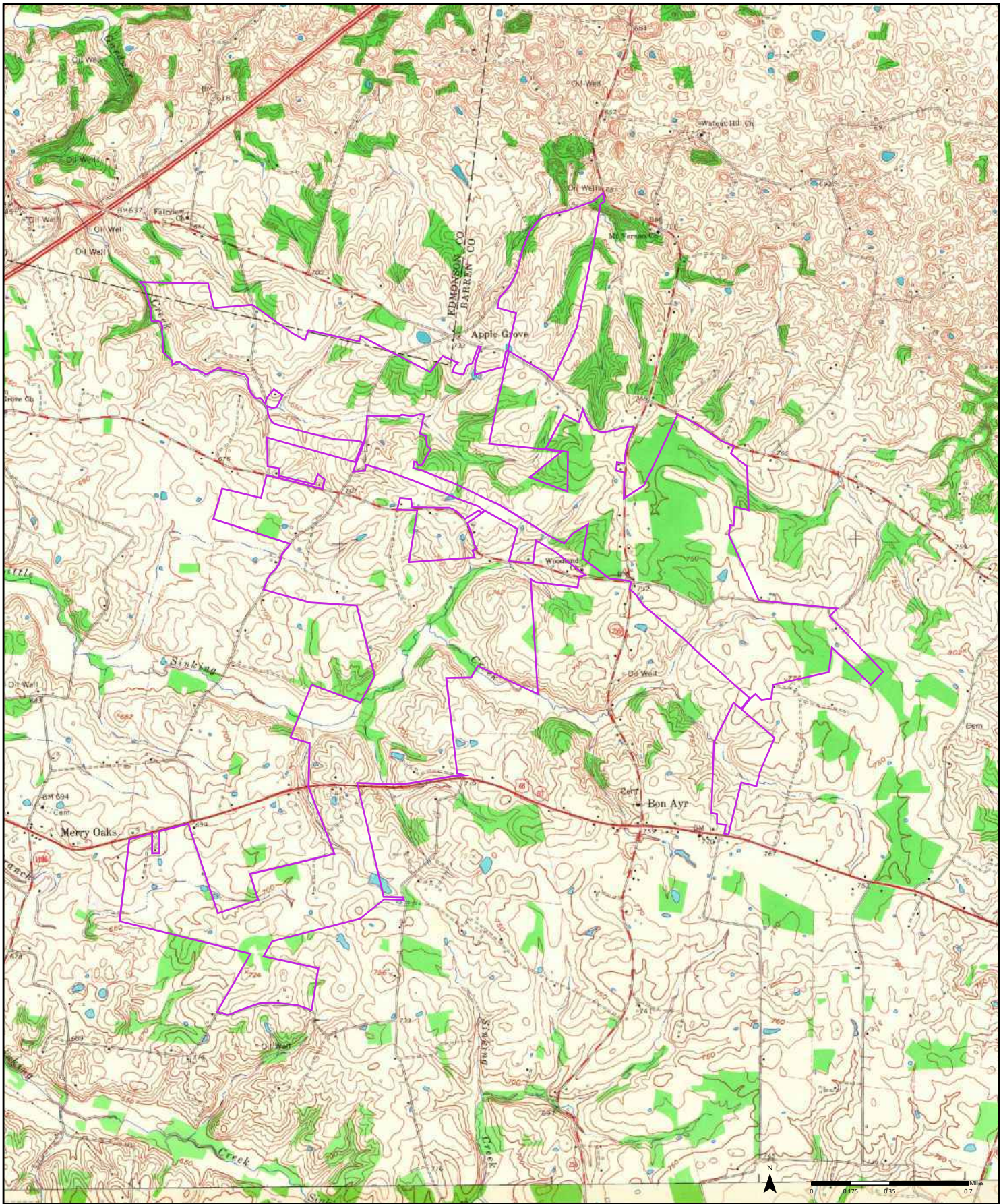


**1973** (1-1954) Aerial Photo Year: 1953 (2-1973) Aerial Photo Year: 1973 Order No. 22121200544



**Available Quadrangle(s):** Park City, KY (2-1973)  
Lucas, KY (1-1954)

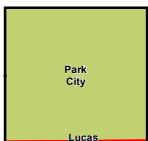




1966

(1-1954) Aerial Photo Year: 1953 (2-1966) Aerial Photo Year: 1954

Order No. 22121200544



Available Quadrangle(s): Park City, KY (2-1966)  
Lucas, KY (1-1954)

Source: USGS 7.5 Minute Topographic Map



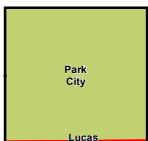




1954

(2-1954) Aerial Photo Year: 1953 (2-1954) Aerial Photo Year: 1954

Order No. 22121200544

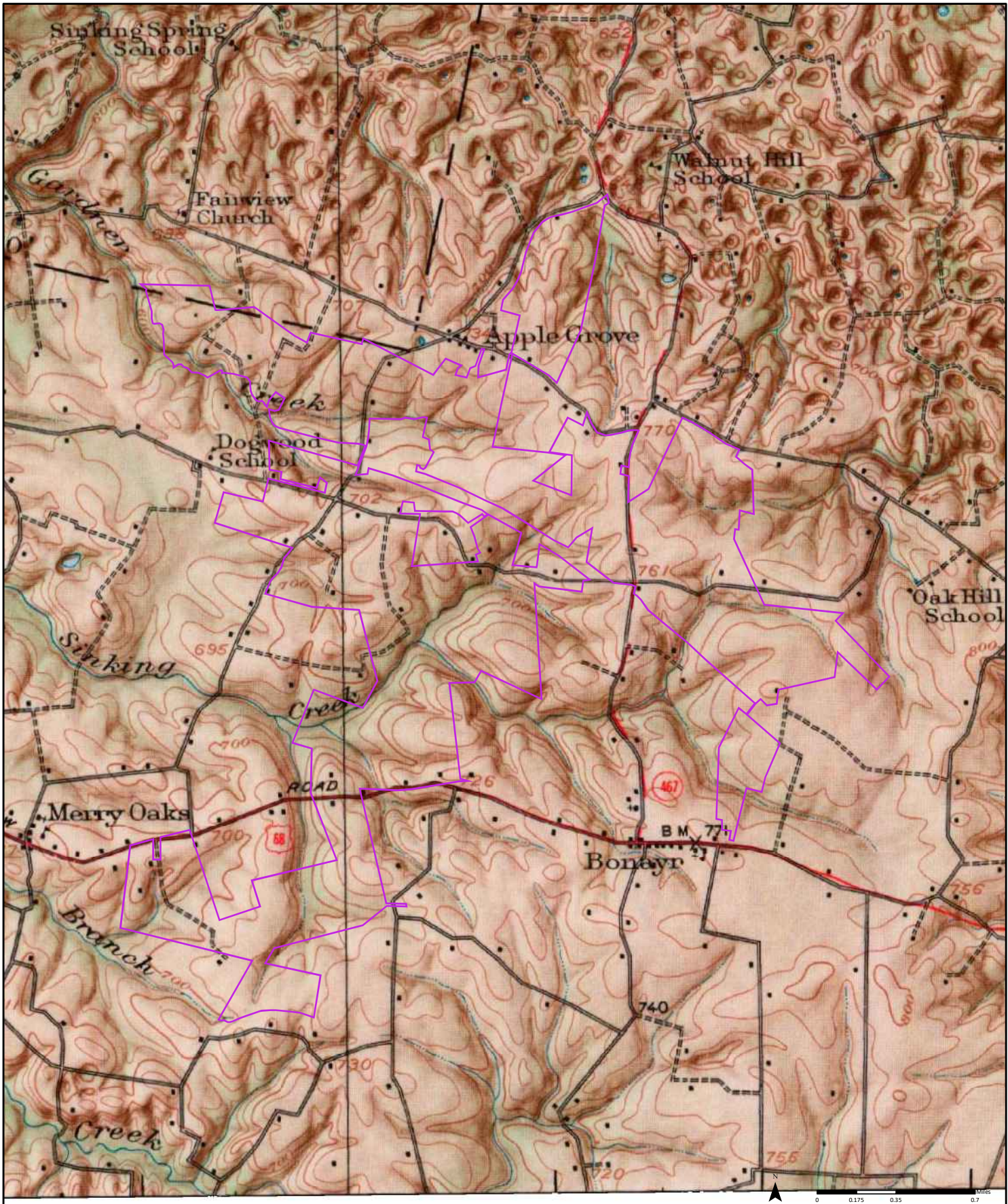


Available Quadrangle(s): Park City, KY (2-1954)  
Lucas, KY (1-1954)

Source: USGS 7.5 Minute Topographic Map







1955

Order No. 22121200544

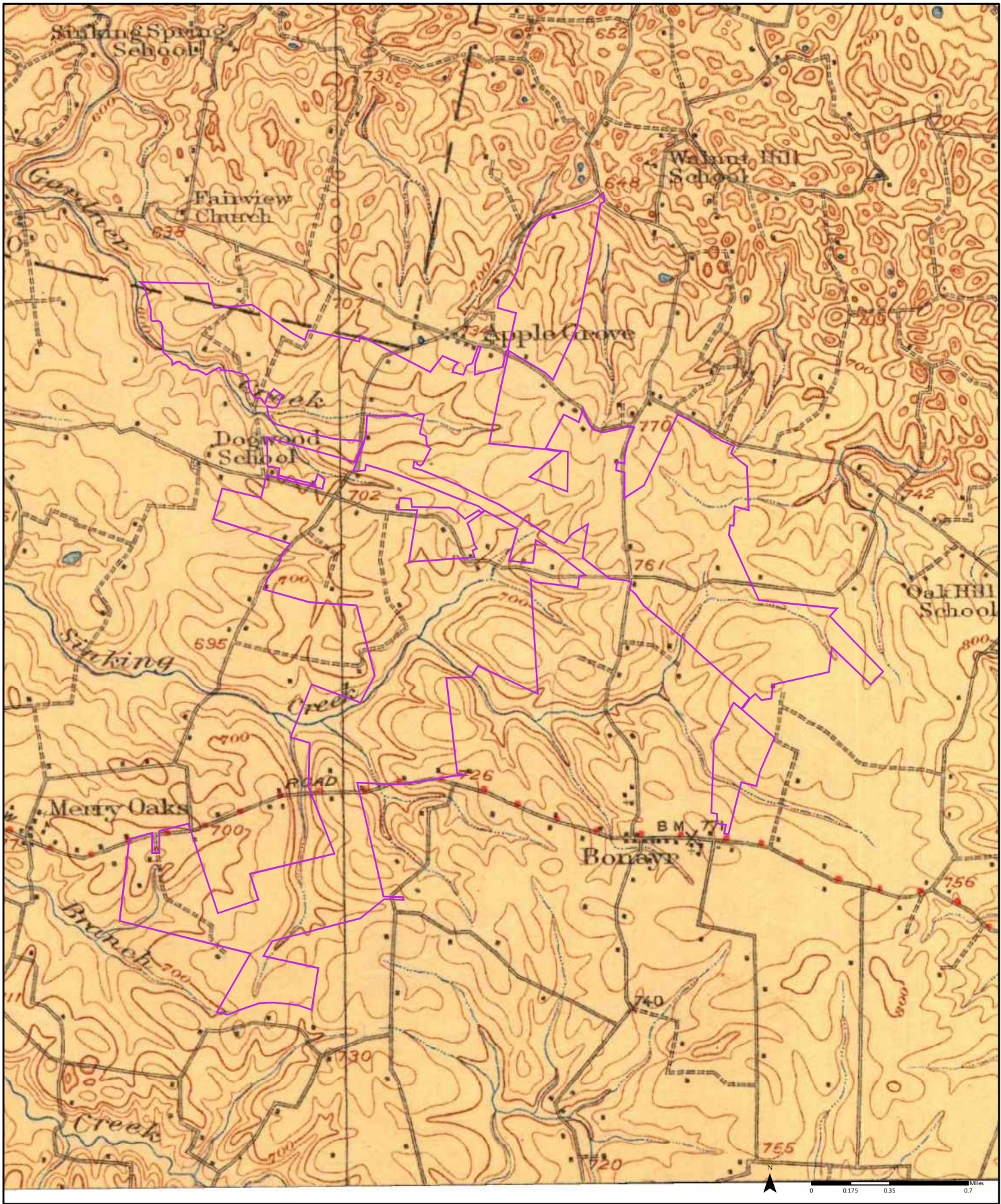


Available Quadrangle(s): Mammoth Cave, KY

Source: USGS 15 Minute Topographic Map







1923

Order No. 22121200544

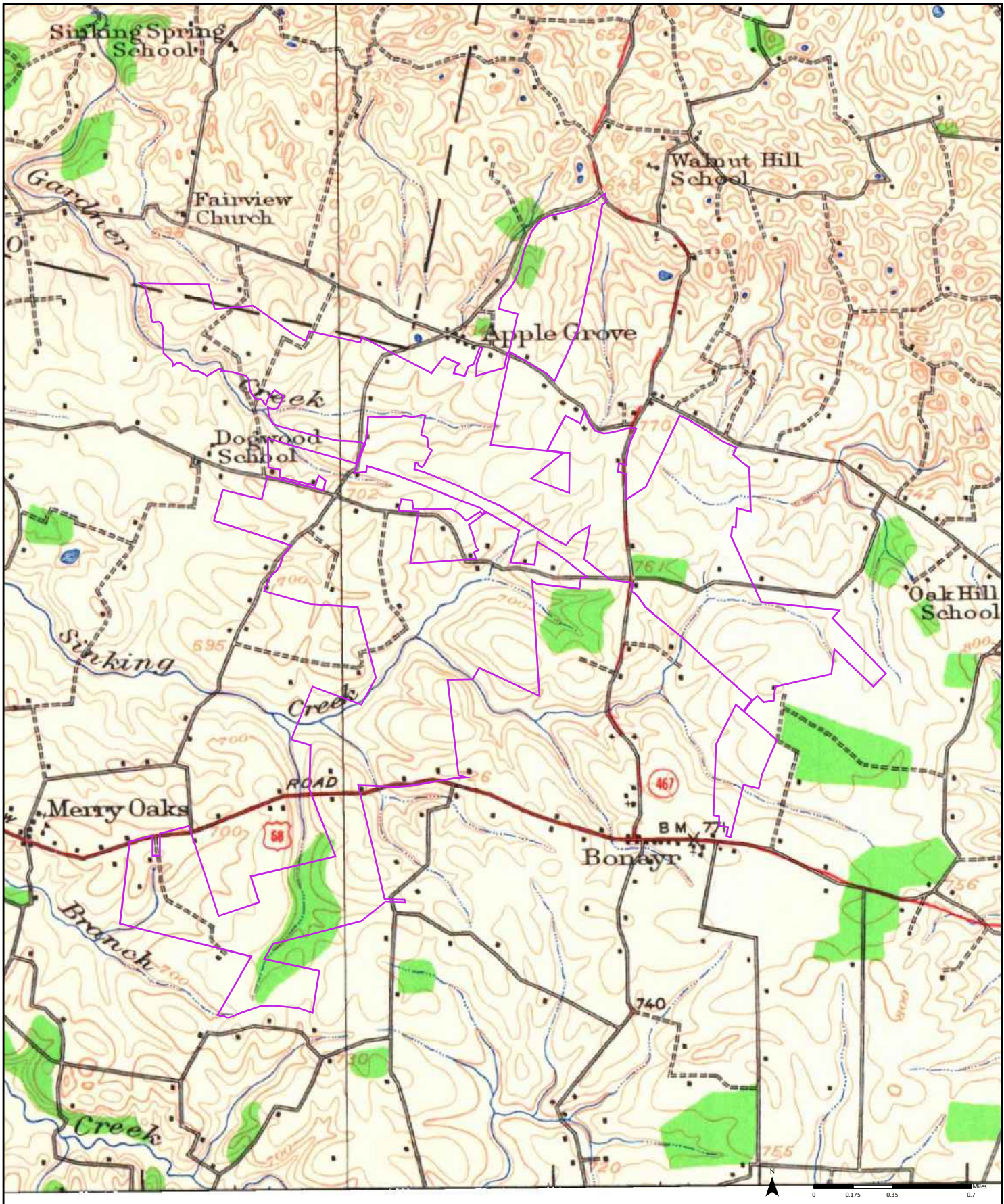


Available Quadrangle(s): Mammoth Cave, KY

Source: USGS 15 Minute Topographic Map







1922

Order No. 22121200544



Available Quadrangle(s): Mammoth Cave, KY

Source: USGS 15 Minute Topographic Map



# **Appendix H Fire Insurance Rate Map Statement**







# FIRE INSURANCE MAPS

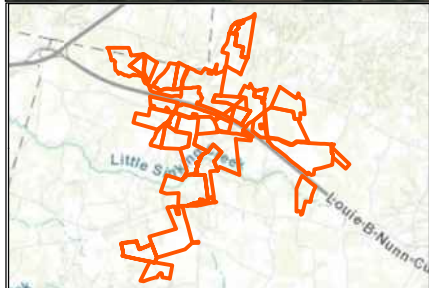
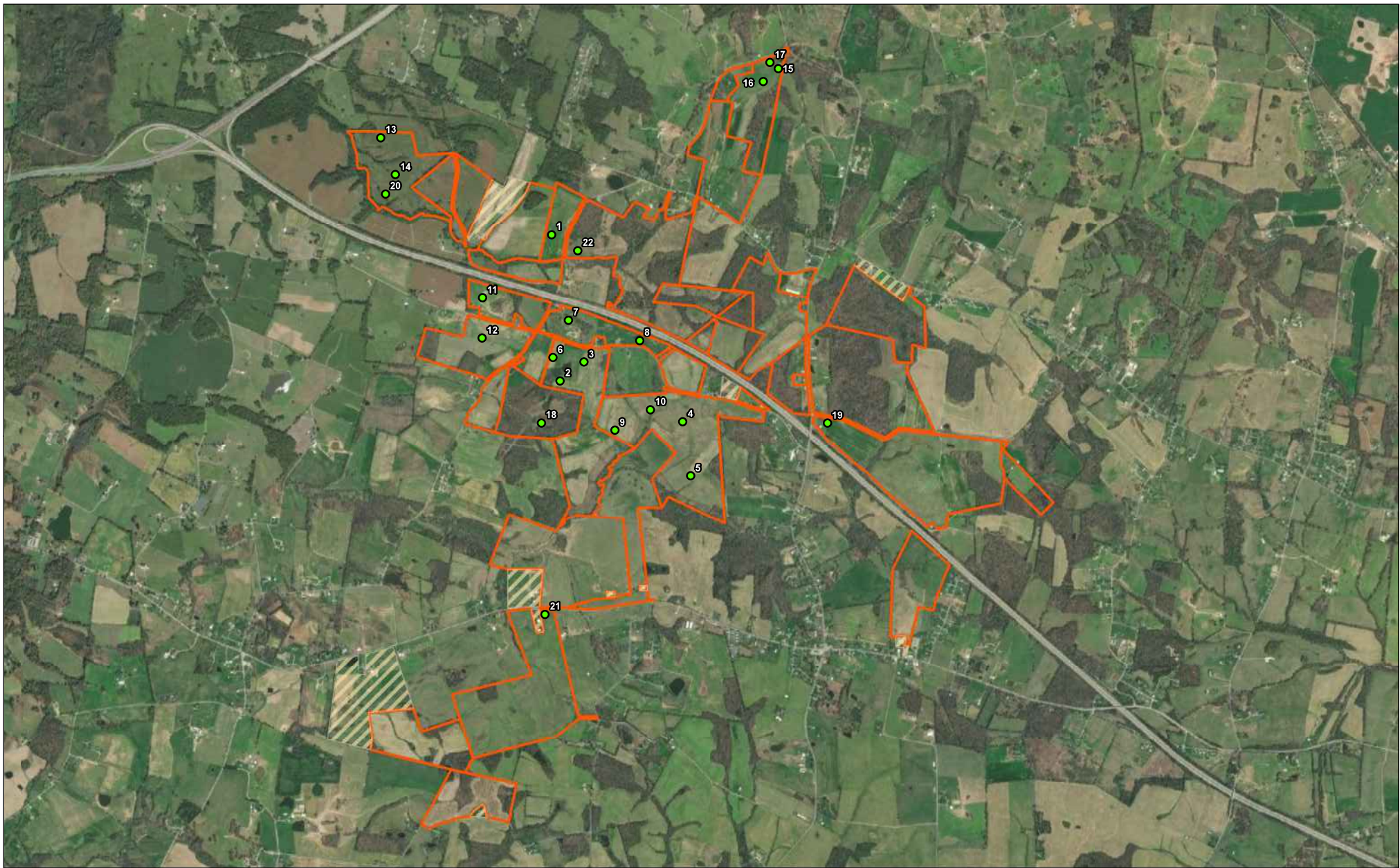
|                          |   |
|--------------------------|---|
| <b>Project Property:</b> | Wood Duck Phase I ESA<br>N/A<br>Smiths Grove KY |
| <b>Project No:</b>       | 237801898                                       |
| <b>Requested By:</b>     | Cardno Inc.                                     |
| <b>Order No:</b>         | 22121200544                                     |
| <b>Date Completed:</b>   | December 12, 2022                               |

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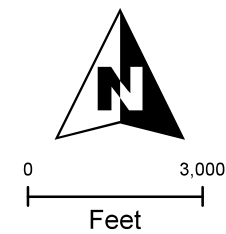
**Please note that no information was found for your site or adjacent properties.**

# **Appendix I Oil and Gas Well Map**





- Project Area
- Do Not Disturb
- Kentucky Oil and Gas Wells



Phase I Assessment  
Wood Duck Solar  
Barren County, Kentucky

Kentucky Oil and Gas  
Well Map

|                       |                          |                  |
|-----------------------|--------------------------|------------------|
| Date:<br>January 2023 | Project No:<br>237801851 | Appendix:<br>### |
|-----------------------|--------------------------|------------------|