

LIMITED PHASE I ENVIRONMENTAL SITE ASSESSMENT

MILLCREEK BESS PROJECT LINCOLN COUNTY, MISSOURI

Prepared For:

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CEC Project No. 354-818.0008

August 19, 2026

Report Expiration Date: November 15, 2026

Disclaimer: Civil & Environmental Consultants ("CEC") prepared the attached Report solely for Ameren Missouri. Any third-party receiving the report may review it for informational purposes only. CEC neither warrants nor represents that the attached Report is appropriate for any purpose contemplated by any third-party recipient. The Report is being provided by CEC on a non-reliance basis, and CEC shall not be liable for any reliance that any third-party recipient may place on the Report.

Attachment A



August 19, 2026

Ms. Laura Klingler
Ameren Missouri
1901 Chouteau Avenue
St. Louis, Missouri 63166

**Subject: Limited Phase I Environmental Site Assessment – Administrative Split
Millcreek BESS Project
Lincoln County, Missouri
CEC Project No.: 354-818.0008**

Dear Ms. Klingler:

Civil & Environmental Consultants, Inc. (CEC) is pleased to present this Limited Phase I Environmental Site Assessment (ESA) for the above-referenced property (Subject Property) to Ameren Missouri (Ameren). This Limited Phase I ESA was split from the Limited Phase I ESA dated July 8, 2026, in accordance with the Change Order for CEC Project No. 354-818, dated August 12, 2026, and authorized via Ameren's purchase order dated August 13, 2026. Since this Limited Phase I ESA is a split from the previous report and not an update, changes to this report are strictly administrative, and only reduced the Subject Property area. CEC conducted the site reconnaissance on May 21, 2026.

CEC appreciates the opportunity to serve Ameren on this project. Please contact us if we can be of any further assistance.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.



Tommy J. Goodwin, Jr., PE
Assistant Project Manager



Beth N. Eckley, PE
Principal

EXECUTIVE SUMMARY

Civil & Environmental Consultants, Inc. (CEC) was retained by Ameren Missouri (Ameren) to conduct a Limited Phase I Environmental Site Assessment (I ESA) revision for the Millcreek Battery Energy Storage System (BESS) Project area located in Lincoln County, Missouri. This Phase I ESA is an administrative split for a reduced area to the Phase I ESA dated July 8, 2026. This Phase I ESA was conducted in general accordance with the Change Order for CEC Project No. 354-818, dated August 12, 2026. This is a cursory summary of findings, and the report must be read in its entirety for a comprehensive understanding of items presented.

The Subject Property consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri. The Subject Property currently contains agricultural cropland, pastureland, vacant/unimproved land, and agricultural structures. This Limited Phase I ESA revealed the following:

RECs or CRECs

The Limited Phase I ESA identified no Recognized Environmental Conditions (RECs) or Controlled RECs (CRECs) in connection with the Subject Property.

Historical RECs

The Limited Phase I ESA identified no Historical RECs (HRECs) in connection with the Subject Property.

***De Minimis* Conditions**

The Limited Phase I ESA identified no *de minimis* conditions in connection with the Subject Property.

No other *de minimis* conditions were observed on the Subject Property.

The Limited Phase I ESA was completed by the following CEC environmental professionals:
Tommy Goodwin – Assistant Project Manager, Beth Eckley – Principal, and Michael Ellis – Senior Principal.

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FIGURES

Figure 1: Subject Property Location Map

Figure 2A-G: Subject Property Detail Map

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APPENDIX B: User Provided Information & Questionnaire

APPENDIX C: Physical Setting Report

APPENDIX D: Database Report

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APPENDIX F: Historical Topographic Maps

APPENDIX G: Professional Resumes

1.0 INTRODUCTION

Civil & Environmental Consultants, Inc. (CEC) was retained by Ameren Missouri (Ameren) to conduct a Limited Phase I Environmental Site Assessment (ESA) for the Millcreek Battery Energy Storage System (BESS) Project area located in Lincoln County, Missouri (Subject Property). This Phase I ESA is an administrative split for a reduced area to the Phase I ESA dated July 8, 2026. This Phase I ESA was conducted in general accordance with the Change Order for CEC Project No. 354-818, dated August 12, 2026.

1.1 LOCATION

The Subject Property consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri, as shown on the Subject Property Location Map, Figure 1. The parcel numbers, owners, and acreages are listed below.

Landowner Name	PIN	Acreage
FRANKLIN R TEASLEY FARMS INC	4-70-26-000-000-001.000	~286 of 574
STATE OF MISSOURI	State Highway 61 RoW	~54

The Subject Property currently contains agricultural cropland, pastureland, vacant/unimproved land, and agricultural structures. Pertinent features of the Subject Property and adjoining properties are depicted on the Subject Property Detail Map, Figure 2. Photographs documenting the site reconnaissance are included in Appendix A.

1.2 PURPOSE

The purpose of a Phase I ESA is to evaluate the presence or potential presence of recognized environmental conditions (RECs) in connection with the Subject Property as a result of present or past activities on the Subject Property or vicinity. This Limited Phase I ESA was conducted in general accordance with ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property (ASTM E 2247-23), but included aspects from ASTM International, Standard Practice for Environmental Site Assessments:

Phase I Environmental Site Assessment Process (ASTM E 1527-21) such as Freedom of Information Act (FOIA) requests to local agencies and landowner interviews.

CEC understands this Limited Phase I ESA will be used as part of a critical issues analysis (CIA), to establish Landowner Liability Protection (LLP) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and to compile and review available information regarding the Subject Property and immediate vicinity to identify recognized environmental concerns (RECs) to the extent feasible pursuant to ASTM E 2247-23 (noting deviations or additions from the Standard as described in this report) for the proposed property transfer.

1.3 DETAILED SCOPE-OF-WORK

The Limited Phase I ESA was conducted in general accordance with CEC's Change Order to Project No. 354-818 and ASTM International, Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process E2247-23 (the standard). This Limited Phase I ESA also incorporates applicable elements prescribed in ASTM E1527-21, as mentioned in Section 1.2, which was published by ASTM in November 2021 and adopted by the United States Environmental Protection Agency (USEPA) on February 13, 2023. ASTM E1527-21 and E2247-23 definitions used throughout this report include, but are not limited to:

REC: *(1) The presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment.*

De minimis conditions generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A de minimis condition is not a recognized environmental condition.

Controlled REC (CREC): *A REC affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).*

Historic REC (HREC): *A historical REC from a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls. A historical REC is not a recognized environmental condition.*

This Limited Phase I ESA included a review of user-provided information, a regulatory environmental database review, local government inquiries, historical and physical records review, interviews with individuals knowledgeable about the Subject Property, a visual noninvasive reconnaissance of the Subject Property and adjoining properties, and preparation of a report of findings.

1.4 SIGNIFICANT ASSUMPTIONS

In preparing this report, CEC has relied upon and presumed accurate certain information (or the absence thereof) about the Subject Property and adjoining properties provided by governmental officials and agencies, property representatives, Ameren, commercial or third-party providers, and others identified herein. Except as otherwise stated in the report, CEC has not attempted to verify the accuracy or completeness of such information. Further, CEC assumes that the client has communicated to CEC information or experience, if it exists, that was material to RECs or environmental concerns in connection with the Subject Property.

1.5 LIMITATIONS AND EXCEPTIONS

Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested was not available or was not received by the issuance of this report. Data presented, and opinions expressed, in this report are qualified as follows:

- The purpose of this Limited Phase I ESA was to assess the physical characteristics of the Subject Property and gather information regarding current and past environmental conditions at the Subject Property with respect to the presence or absence of petroleum products, hazardous materials, or substances as defined in the applicable state and federal environmental laws and regulations.
- CEC derived data in this report primarily from nonintrusive visual inspections, examination of records in the public domain, standard historical, physical setting, and regulatory documentation as defined in ASTM E 2247-23 and interviews with select individuals knowledgeable about the Subject Property. Documentation, records, and

information reviewed for this report are further limited to readily accessible and reasonably obtainable sources.

- Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent site reconnaissance and may subsequently become observable (such as after Subject Property renovation or development). Further, illegal, or unreported activities may have occurred at the Subject Property.
- Current uses of surrounding properties were determined through visual observations conducted from public vantage points, without entering those properties, and readily available historical and regulatory documentation.
- Additional services or ASTM E 2247-23 non-scope items not specifically stated in our proposal or in Section 1.3 have not been addressed in this Limited Phase I ESA. Non-scope items include, but are not limited to: subsurface assessments, radon, evaluation of regulatory compliance, industrial hygiene, health and safety, ecological resources, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, biological agents, mold, high voltage power lines, lead-based paint, and lead in drinking water. In addition, issues regarding constituents that are not defined as a hazardous substance or petroleum product in the standard, PCB-containing building materials, ionizing radiation, oil/gas production, mineral rights and mining, and geotechnical suitability are also considered beyond the scope of this project.
- Exceptions to and deletions from ASTM E 2247-23 are discussed where appropriate in Section 1.6 and/or 1.7 of this report.
- Continued viability of this report was subject to ASTM E 2247-23 Sections 4.6 and 4.8. The findings and conclusions expressed herein may be used by those identified in Section 1.8.

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps or data failures are identified and discussed in the text of the report. However, it should be recognized that an evaluation of these limitations and significant data gaps was based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date

may result in an alteration of our conclusions, recommendations, or opinions. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the Subject Property or otherwise uses the report for any other purpose.

1.6 DATA GAP ANALYSIS

CEC has performed this Limited Phase I ESA utilizing guidance established by ASTM E 2247-23 standard practices. Based on the information CEC received, reviewed, and included in this report, data gaps consistent with the definition in the ASTM E 2247-23 identified for this assessment include:

- Review of standard historical sources at less than approximately five-year intervals was not reasonably ascertainable based on the review of the historical documents provided by EDR.
- Ameren has not provided ownership records or chain of title records to CEC.

Based on review of available historical and regulatory information, the above-referenced data gaps likely have not prevented identification of RECs in connection with the Subject Property.

1.7 DEVIATIONS

Deviations from ASTM E 2247-23 or agreed upon scope of work, if any, were identified and discussed within the applicable sections of this report. Special contractual conditions were not requested or required during the completion of this Limited Phase I ESA.

1.8 USER RELIANCE

This report has been prepared for the exclusive use and reliance of Ameren, its subsidiaries, affiliates, and authorized representatives (Users), who may solely rely upon the conclusions presented herein. Reliance on this Limited Phase I ESA by the Users and all authorized parties will be subject to the terms, conditions and limitations stated in CEC's Change Orders to Project No. 354-818, dated August 12, 2026 and May 13, 2026, CEC's Proposal No. 354-818 dated October 29, 2025, and authorized via Ameren's authorizations to proceed dated August 13, 2026, May 15,

2026, and November 14, 2025, respectively. The use or reliance by a third party is not permitted without the specific written permission of CEC and Ameren.

1.9 SPECIAL TERMS AND CONDITIONS

This report represents our service to Ameren as of the report date. Findings and recommendations presented in this report are based upon the current utilization of the Subject Property, observations from the most recent Subject Property reconnaissance and additional activities described herein. Such information was subject to change due to passage of time, physical alteration of the Subject Property or structures, change in climate or weather conditions, regulatory changes, and advancement in technology.

Phase I ESAs are noninvasive and may not identify the potential that hazardous, toxic, or petroleum substances have been released or are present at the Subject Property. During this Limited Phase I ESA, as described herein, some documents and public records were not reviewed, as they were not reasonably accessible, were not reasonably obtainable, or made known to CEC. No warranties, express or implied, are intended or made.

1.10 REPORT VIABILITY

Database – August 13, 2026

Interviews – Not conducted for the Limited Phase I ESA Update or Revision

Site Reconnaissance – May 21, 2026

Lien Search – Not conducted by CEC

EP Declaration – August 19, 2026

180-day Viability Date – November 15, 2026

2.0 USER PROVIDED INFORMATION

Per Section 6.0 of ASTM E 2247-23, the User (Ameren) is required to perform specific tasks that will aid in the identification of RECs in connection with the Subject Property, in order to qualify for the LLP under the CERCLA. Information provided by the User is summarized below.

2.1 USER QUESTIONNAIRE

A copy of the ASTM E 2247-23 User Questionnaire was submitted to Ameren to assist in gathering information to aid in the identification of RECs in connection with the Subject Property. The questionnaire addressed the following:

1. Environmental liens that are filed or recorded (land title or judicial records) against the Subject Property.
2. Activity and use limitations that are in place on the Subject Property or that have been filed or recorded (land title or judicial records) against the Subject Property.
3. Specialized knowledge or experience related (e.g., same line of business) to the Subject Property or nearby properties.
4. Relationship of the purchase price to the fair market value of the Subject Property if it were not contaminated.
5. Commonly known or reasonably ascertainable information about the Subject Property.
6. The degree of obviousness of the presence or likely presence of contamination at the Subject Property, and the ability to detect the contamination by appropriate investigation.

A completed User Questionnaire was provided to CEC on August 14, 2026, and refers to the Exhibit B and Exhibits C for each landowner which were also provided to CEC. The User Questionnaire and the completed landowner questionnaire acknowledged the historical use of agricultural chemicals on the Subject Property (i.e., herbicides, pesticides, etc.). The User Questionnaire, Exhibit B, and Exhibit C did not reveal any RECs for the Subject Property.

The User Questionnaire, Exhibit B, and Exhibit C are contained in Appendix B.

2.2 TITLE RECORDS

Land title or owner deed records search was not included in the scope of services for this assessment and Ameren has not provided land title or ownership deed records for review. CEC assumes Ameren will evaluate title information with respect to RECs in connection with the Subject Property.

2.3 ENVIRONMENTAL LIENS OR AULS

A search for environmental liens or activity and use limitations (AULs) was not included in the scope of services for this assessment and Ameren has not provided environmental lien or AUL information for review. CEC assumes Ameren will evaluate environmental lien or AUL information with respect to RECs in connection with the Subject Property.

2.4 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

Based on a review of Ameren provided information and publicly available information obtained from Lincoln County Parcel Records, <https://www.lincolncmo.gov/county-assessor-mapping>, the current owners of the two (2) parcels comprising the Subject Property are noted in Section 1.1. Completed landowner questionnaire was provided to CEC as noted in Section 2.1 and is included in Appendix B.

3.0 RECORDS REVIEW

Per ASTM E 2247-23 physical setting sources, environmental regulatory database listings and historical records were reviewed to identify RECs in connection with the Subject Property. The information presented was subject to the accuracy, detail, date of update, and availability of records or documents provided, or obtained from the information providers. In some of the following subsections, the words upgradient, crossgradient, and downgradient refer to the assumed topographic or hydrogeological gradient in relation to the Subject Property.

3.1 PHYSICAL SETTING

CEC reviewed readily available and reasonably ascertainable published physical setting documents to obtain information regarding topographic, geologic, hydrogeological, and soil characteristics of the Subject Property and vicinity. The available information reviewed is summarized in the following sections.

3.1.1 Topography and Soil Characteristics

A review of the United States Geological Survey (USGS) 7.5-Minute Series topographic maps dated 2021 for Auburn, MO and Eolia, MO indicates that the Subject Property has an average elevation of approximately 770 feet above mean sea level (AMSL; ranging from approximately 700 feet AMSL to 810 feet AMSL) and slopes to the west of the Subject Property. The Subject Property drains west into Mill Creek.

The United States Department of Agriculture (USDA) Soil Survey Geographic Database (SSURGO) Natural Resources Conservation Service (NRCS) identified several different types of soil, including the following major soil units underlying the Subject Property:

- Mexico silt loam, 1% - 4% – is located on ridges and till plains and comes from the parent material of loess over pedisidiment. The drainage class is poorly drained, and it is in hydrologic group D. It consists of silt loam from zero to 15 inches; clay loam from 15 to 34 inches; and silty clay loam from 34 inches to 79 inches. This soil covers approximately 20% of the Subject Property and immediate surrounding area.

- Goss-Gasconade-Brussels Complex, 9% - 70% slopes, very stony – is located on hillslopes and hills and comes from the parent material of slope alluvium over residuum weathered from dolomite. The drainage class is well drained, and it is in hydrologic group C. It consists of a matrix of primarily Gravelly silt loam, cobbly clay, channery silty clay loam, flaggy silty clay and bedrock throughout the matrix. This soil covers approximately 18% of the Subject Property and immediate surrounding area.
- Keswick silt loam, 5% - 9% slopes, eroded – is located in hillslopes and till plains and comes from the parent material of pedisegment over till. The drainage class is somewhat poorly drained, and it is in hydrologic group D. It consists of silt loam from zero to 7 inches; clay from 7 to 20 inches; and clay loam from 20 inches to 79 inches. This soil covers approximately 20% of the Subject Property and immediate surrounding area.
- The remaining soil types are minor constituents each constituting less than 10% of the Subject Property area. There are nine (9) additional soil types on the Subject Property.

3.1.2 Geology

According to GIS Mapping data provided by the USGS, the entirety of the Subject Property vicinity was underlain by the Odp geologic unit (Decorah Group and Plattin Group), which is of the Middle Ordovician age and primarily consists of limestone.

3.1.3 Groundwater

A review of the ERIS Physical Setting Report (Appendix C) indicates that there are one (1) well on the Subject Property, a private water well. There is one inactive (1) public water system well with violations approximately 200 feet southwest, downgradient, of the westernmost portion of parcel 04-70-26-000-000-001.000 (deactivated in February 2024) and three (3) public drinking wells without violations within 1,000 feet of the boundary of the Subject Property. In total, 32 records for state, federal, and private water wells were identified on the Subject Property or within the one (1)-mile surrounding area.

3.1.4 Oil Wells

A review of the ERIS Physical Setting Report (Appendix C) indicates that there are no oil and gas wells or borings on the Subject Property or the surrounding area.

3.1.5 Hydrology

Based upon the topography depicted on the Subject Property Location Map (Figure 1), the Subject Property drains west into Mill Creek.

Without the benefit of onsite groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the Subject Property cannot be directly ascertained. CEC assumes the local groundwater flow reflects the topography of the Subject Property vicinity. Subsurface and localized geologic conditions can alter assumed flow direction.

3.1.6 Flood Zone

CEC performed a limited records review for flood plain information for the Subject Property through review of the Federal Emergency Management Agency (FEMA) Flood Zone Map data for the Subject Property vicinity. The FEMA Flood Zone Map data was presented on the Overview Map provided in the ERIS Physical Setting Report (Appendix C). According to the FEMA Flood Zone Map information provided by ERIS, the westernmost portion of the parcel 04-70-26-000-000-001.000, near Mill Creek, is mapped as 1% Annual Chance Flood Hazard. The remainder of the Subject Property is mapped as 0.2% Annual Chance of Flood Hazard.

3.2 ENVIRONMENTAL RECORDS REVIEW

CEC reviewed ASTM standard environmental record sources, provided by ERIS, for sites or facilities on or in the vicinity of the Subject Property. In addition, inquiries to appropriate local regulatory agencies were submitted. Listed below are facility listings within the ASTM search distances from the approximate Subject Property boundaries. Database descriptions and definitions are provided in the ERIS database report, which is included in Appendix D.

Federal Databases		
Database	Description	Radius (miles)
NPL/Proposed NPL/NPL LIENS	The National Priorities List (NPL) identifies sites for priority cleanup under the Superfund Program.	1.0 mile
Delisted NPL	The Delisted NPL identifies facilities that have been removed from the NPL.	0.5 miles
SEMS	The Superfund Enterprise Management System (formerly the Comprehensive Environmental Response, Compensation, and Liability Information System [CERCLIS]) database tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund.	0.5 miles
SEMS-ARCHIVE	SEMS-Archive (formerly CERCLIS/No Further Remedial Action Planned [NFRAP]) database identifies sites that to the best of EPA's knowledge, assessment has been completed and the EPA has determined no further steps will be taken to list the site on the NPL. The decision does not necessarily mean that there is no hazard associated with a given site.	0.5 miles
RCRA CORRACTS	Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) database identifies hazardous waste handlers undergoing "corrective action" activity.	1.0 mile
RCRA Non-CORRACTS TSD	The RCRA Non-CORRACTS Treatment Storage and Disposal (TSD) database includes information on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA.	0.5 miles
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate, transport, store, treat and/or dispose of hazardous waste. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of hazardous waste or over 1 kg/month of acutely hazardous waste; SQG produce 100-1000 kg/month of hazardous waste; CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	Target property (TP) and adjoining properties
IC / EC	A listing of sites with institutional controls (IC) and/or engineering controls (EC) in place. IC includes administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site, and deed restrictions are generally required as part of the institutional controls. EC includes various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	TP and adjoining properties
ERNS	The Emergency Response Notification System (ERNS) records and stores information on reported releases of oil and hazardous substances.	TP

State/Tribal Databases		
Database	Description	Search Radius
SWF/LF	State and/or Tribal database of solid waste facilities/landfills (SWF/LF) located in the state. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5 miles

State/Tribal Databases		
Database	Description	Search Radius
LUST/LAST	State and/or Tribal database of leaking underground storage tanks (LUSTs). aboveground storage tanks (LASTs).	0.5 miles
UST/AST	State and/or Tribal database of registered underground storage tanks (USTs)/ aboveground storage tanks (ASTs).	TP and adjoining properties
AUL	State database of Activity and use limitations (AUL) includes both engineering controls and institutional controls.	TP and adjoining properties
VCP/VRP	State and/or Tribal database of Voluntary Cleanup or Remediation Program (VCP/VRP) sites.	0.5 miles
Brownfields	State and/or Tribal database of Brownfield properties – an abandoned, inactive, or underutilized, property on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.	0.5 miles
SMARS	Site Management and Reporting System - currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.	0.5 miles

Non-ASTM Databases		
Database	Description	Search Radius
ECHO	The Environmental Compliance History Online (ECHO) is an integrated compliance history database of facilities nationwide.	TP
FRS/FINDS	The Facility Registry System (FRS) identifies facilities, sites or places subject to environmental regulations or of environmental interest and contains “pointers” to other sources that contain more detail. The FRS replaces the Facility Index System (FINDS).	TP
TIER 2	The Tier 2 is a list of facilities which store or manufacture hazardous materials that submit a chemical inventory report.	TP
MANIFEST	The Manifest lists and tracks hazardous waste from the generator through transporters to the treatment, storage, or disposal (TSD) facility.	0.25 miles
PFAS ECHO	Facilities in Industries that May Be Handling Per- and polyfluoroalkyl substances (PFAS) Listing	0.25 miles
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.	1.0 mile
AIRS	Air Permit Program (AIRS) is a list of permits issued by the Air Permit Program.	TP
ICIS	The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program	TP
FIN ASSUR	Owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the cleanup, closure, and post-closure care of their facilities.	TP

Non-ASTM Databases		
Database	Description	Search Radius
DRYCLEANERS	A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers; laundry and garment services	0.25 mile
SPILLS	A discharge of a hazardous substance that may adversely impact, or threaten to impact public health, welfare or the environment.	0.125 miles
SWRCY	A listing of recycling center locations.	0.5 miles
WDS	The Waste Data System (WDS) tracks solid and hazardous waste from the generator through the transporter to the disposal or treatment facility.	0.5

In addition to the above ASTM-required databases, CEC reviewed additional federal, state, local, and proprietary databases provided by ERIS. The list of additional databases, database descriptions, and definitions are provided in the ERIS database report, which is included in Appendix D. Information is presented in the manner and style provided in the ERIS Radius Map report.

3.2.1 Subject Property

The Subject Property was identified on the MRDS database. The MRDS database record indicated the presence of industrially useful stone in the geology in the northwest portion of the Subject Property. This database record is not considered a REC for the Subject Property.

3.2.2 Surrounding Area

No databases records searched by ERIS were identified within the database search radii for the Subject Property.

Not all sites or facilities identified in the database records can be accurately located in relation to the Subject Property, due to incomplete information being supplied to the regulatory agencies. These facilities are referred to as "Unplottable Sites" by ERIS. The ERIS Unplottable Summary did not identify any unplottable sites.

3.2.3 Local Agency Inquiries

3.2.3.1 Fire Department

CEC emailed a request to the Lincoln County Fire Protection District 1 for records or information regarding fires, spills, USTs/ASTs, or incidents posing an environmental concern occurring on or in the vicinity of the Subject Property. As of the issuance of this report, a response has not been received from the fire department.

3.2.3.2 Health Department

CEC emailed a request to Brett Siefert, the listed FOIA contact for the Lincoln County Health Department, for records regarding waste disposal activities, wastewater treatment and/or septic systems, water wells and department inspections or reported complaints identifying a potential environmental concern on or in the vicinity of the Subject Property. The health department responded to the original FOIA request on February 4, 2026 with no records for any of the Subject Property parcels listed in the request, and as of the issuance of this report, a response has not been received from the health department for reduced Subject Property.

3.2.3.3 Emergency Management Department

CEC submitted a request to the Lincoln County Emergency Management Department for records regarding chemical spills, ASTs, USTs, or emergency responses involving potential environmental concerns on or in the vicinity of the Subject Property. As of the issuance of this report, a response has not been received from the emergency management department.

3.2.3.4 Economic Development / Building Department

CEC submitted a request to the Lincoln County Economic Development Department for records regarding building, fire, demolition, or other environmentally related permits involving potential environmental concerns on or in the vicinity of the Subject Property. As of the issuance of this report, a response has not been received from the economic development department.

3.3 ENVIRONMENTAL RECORDS REVIEW SUMMARY

The Subject Property was identified on the MRDS database. The MRDS database record indicated the presence of industrially useful stone in the geology in the northwest portion of the Subject Property. This database record is not considered a REC for the Subject Property.

3.4 HISTORICAL USE INFORMATION

Reasonably ascertainable standard historical sources were reviewed to develop a history of uses of the Subject Property and surrounding area. The identified historical uses were evaluated to determine if they may be indicative of RECs in connection with the Subject Property. A summary of each of the sources reviewed is provided below.

3.4.1 Aerial Photographs

Aerial photographs were requested from ERIS to identify the history and development of the Subject Property and the surrounding area. The Subject Property is approximately 1,750 acres of land located adjoining the south side of Highway F and bisected north-south by State Highway 61. ERIS provided aerial photographs from 1941, 1956, 1963, 1974, 1985, 1995, 2003, 2004, 2005, 2006, 2007, 2009, 2010, 2012, 2014, 2016, 2018, 2020, 2022, and 2024. The ERIS Aerial Photograph Report is included in Appendix E.

In the 1941 aerial photograph, the Subject Property and the surrounding area appear entirely to be agricultural field farmland with sections of woodland and dispersed farmsteads. The Mill Creek riparian corridor is visible along the southern boundary of the Subject Property.

The roads that are State Highway 61 (longitudinally adjoining the east of the Subject Property), and Mill Creek Road (dissecting the western portion of 04-70-26-000-000-001.000) are visible and follow the same path as present time. The present Highway 61 is a two- (2-) lane gravel road. Multiple farm ponds and drainages are visible throughout the Subject Property. Due to low resolution of the aerial photograph, individual structures could not be discerned.

In the 1956 aerial photograph, the Subject Property is clearly visible. Either Millcreek School (from the 1942 topographic map) or a farmstead is visible centrally located in the southern part of

parcel 04-70-26-000-000-001.000 bounded by the present-day Highway 61 and Millcreek Church Road. A small section of woodland is cleared immediately north of the school/farmstead which is consistent with the ERIS database result for the mineral testing. Millcreek Church is not discernible, but the drive through the Millcreek Cemetery is visible adjoining the west side of the Millcreek Church Road and the Subject Property. The now visible surrounding area to the western portion of the Subject Property also appears entirely to be agricultural field farmland with small sections of woodland and dispersed farmsteads.

The resolution of the 1963 aerial photograph makes discernment of any structures difficult. There does not appear to be any changes to the Subject Property or the surrounding area.

The 1974 aerial photograph does not show any significant changes to the Subject Property or surrounding area apart from two (2) of the structures in the southern part of parcel 04-70-26-000-000-001.000 have been removed.

The 1985 aerial photograph does not show any significant changes to the Subject Property or surrounding area apart from Highway 61 now being developed as a divided four- (4-) lane highway.

In the 1995, 2003, 2004, 2005, 2006, 2007, 2009, 2010, 2012, 2014, 2016, 2018, 2020, 2022 and 2024 aerial photographs, no major changes are identified on the Subject Property or in the surrounding area apart from a residential development being observed along the newly developed roads (labeled as Sun Haven Drive and Millcreek Drive in the 2011 topographical map) to the southwest of the Subject Property starting in the 2003 aerial photograph.

3.4.2 Historical Topographic Maps

Historical topographic maps were requested from ERIS to identify land development for the Subject Property and surrounding area. The Subject Property is an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way. The ERIS Historical Topographic Map Report is included in Appendix F. The topographic map review was summarized below.

- 1934 Elsberry, MO Quadrangle (15-Minute Series)
- 1942 Elsberry, MO Quadrangle (15-Minute Series)
- 1975 Auburn, MO and Eolia, MO Quadrangles (7.5-Minute Series)
- 1984 Auburn, MO and Eolia, MO Quadrangles (7.5-Minute Series)
- 2011 Auburn, MO Quadrangle (7.5-Minute Series)
- 2014 Auburn, MO Quadrangle (7.5-Minute Series)
- 2017 Auburn, MO Quadrangle (7.5-Minute Series)
- 2021 Auburn, MO and Eolia, MO Quadrangles (7.5-Minute Series)

The 1934 topographical map depicts the Subject Property as largely undeveloped with structures in the northern and southern portions of parcel 04-70-26-000-000-001.000, including Mill Creek School. No 61 (State Highway 61) is depicted along the eastern boundary of the Subject Property. The road that is now Millcreek Church Road (longitudinally transecting the western portion of the Subject Property) are visible and follow the same path as present time. Mill Creek is depicted flowing west through the southern portion of the Subject Property, originating near Highway 61. The Subject Property and surrounding area is primarily dominated by a generally flat ridge gradually sloping off to the west with multiple unnamed stream features flowing off the large ridgetop. The surrounding area is generally undeveloped except for dispersed structures (farmsteads) along the various roadways. A cemetery is depicted adjoining the west of Millcreek Church Road, immediately west of the western portion of the Subject Property.

The 1942 topographical map did not depict any significant changes to the Subject Property or the surrounding area.

The 1975 topographical map is generally similar to the previous topographical map except that all the structures on parcel 04-70-26-000-000-001.000 only has one (1) of the original five (5) structures depicted including the removal of Mill Creek School. An unnamed cemetery is labelled at the northernmost point of parcel 04-70-26-000-000-001.000, west of Highway 61, at one of the structure locations in the previous topographical maps. An overhead transmission line is depicted transecting the western portion of parcel 04-70-26-000-000-001.000, mostly longitudinally, west of Highway 61, and crosses Highway 61 south of the Subject Property. No significant changes are

observed to the surrounding area other than Mill Creek Church being depicted on the west side of what is now Millcreek Road, adjoining the far western boundary of the Subject Property.

In the 1984 topographical map, no significant changes are observed to the Subject Property or the surrounding area other than Highway 61 is labelled as under construction.

In the 2011 topographical map, structures are no longer depicted. A four (4)-lane highway (Highway 61) is depicted and two (2) roads (Millcreek Drive and Sun Haven Drive) adjoining the west side of the Subject Property across Millcreek Church Road. Ellis Cemetery and Mill Creek Cemetery are labeled adjoining the southwest corner of the Subject Property across Millcreek Church Road.

In the 2014, 2017 and 2021 topographical maps, no significant changes are observed to the Subject Property or the surrounding area. Property Tax Maps or Assessor Information

Property tax and assessor information was available via online websites for Lincoln County at <https://lincolngis.integritygis.com/H5/Index.html?viewer=lincoln>. No information pertinent to RECs, CRECs, or HRECs are identified in relation to the property tax and assessor information.

3.4.3 Previous Assessments

CEC was provided with the following previous reports for the Subject Property for review:

- *Limited Phase I Environmental Site Assessment, Millcreek Solar and BESS Project, Lincoln County, Missouri*, dated July 8, 2026, and prepared by Civil & Environmental Consultants, Inc (CEC). The report did not identify any RECs, CRECs, or HRECs.
- *Limited Phase I Environmental Site Assessment, Millcreek Solar Project, Lincoln County, Missouri*, dated February 9, 2026, and prepared by Civil & Environmental Consultants, Inc (CEC). The report did not identify any RECs, CRECs, or HRECs.

3.5 HISTORICAL USE INFORMATION SUMMARY

Based on review of readily available historical use information, the majority of the Subject Property was agricultural land with sparsely forested areas, intermittent and ephemeral streams and farmsteads from at least 1934 through the present. Historical topographic maps depict multiple

structures, including Mill Creek School, on parcel 04-70-26-000-000-001.000 as early as 1934. By 1975, most of these structures, including the school, were no longer depicted. An unnamed cemetery was identified at the northern portion of parcel 04-70-26-000-000-001.000, and later topographic maps identify Ellis Cemetery and Mill Creek Cemetery adjacent to the Subject Property west of Millcreek Church Road. Other notable developments included improvements to Highway 61 and the installation of an overhead transmission line crossing the Subject Property. No RECs, HRECs, or CRECs for the Subject Property were identified through the historical use information.

4.0 SITE RECONNAISSANCE

4.1 METHODOLOGY AND LIMITING CONDITIONS

CEC conducted a site reconnaissance of the Subject Property and vicinity for observation or features indicative of RECs. The site reconnaissance consisted of a walk-through of the Subject Property and interiors of structures, if any, on the Subject Property. Surrounding properties were visually assessed from the Subject Property boundaries or available public vantage points and were not entered for inspection of interior or non-visible areas. Pertinent features observed during the Subject Property reconnaissance are depicted on the Subject Property Detail Map, Figures 2A-E. Photographs documenting the site reconnaissance are included in Appendix A.

Mr. Tommy Goodwin of CEC performed the site reconnaissance on May 21, 2026. Mr. Goodwin was not escorted during the site reconnaissance. CEC conducted landowner questionnaires similar to the user questionnaire via phone calls on May 20, 2026, which are detailed in Section 5.0. At the time of the site reconnaissance, the weather was partly cloudy and visibility was good during the reconnaissance. The weather did not prevent CEC's ability to identify RECs in connection with the Subject Property.

4.2 LOCATION AND CHARACTERISTICS

The Subject Property consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri. The Subject Property currently contains agricultural cropland, pastureland, vacant/unimproved land, and agricultural structures. Utility providers for the Subject Property include:

Utility Providers	
Electricity	Ameren Missouri
Natural Gas	Spire Energy
Drinking Water	Private Water Wells
Wastewater	Septic Systems

4.3 DESCRIPTION OF IMPROVEMENTS AND CURRENT ACTIVITIES

The Subject Property consisted of two (2) contiguous parcels. All parcels were at least partially developed for agricultural or conservation purposes, and both parcels contained existing structures or some form of improvement other than electric distribution lines and fences. The improvements included:

- Parcel 04-70-26-000-000-001.000 contained three (3) barns, two (2) grain silos, one (1) storm shelter, and several small shelters for cattle or hay storage; and
- State of Missouri Right of Way parcel contained the divided four- (4-) lane Highway 61.

A lead or asbestos survey was not performed; however, due to most of the buildings being constructed prior to 1970, it is possible that lead and asbestos may be present.

Underground utilities and overhead electric distribution lines border and dissect the parcels of the Subject Property.

4.4 SITE OBSERVATIONS

Information presented in this section was based on observations and information obtained at the time of the site reconnaissance.

4.4.1 Site Processes and Equipment

At the time of the site reconnaissance of the Subject Property, the two (2) parcels were at least partially developed for agricultural purposes, and parcel 04-70-26-000-000-001.000 contained agricultural structures and an overhead high voltage transmission line that transects the middle of the parcel mostly longitudinally and the State of Missouri Right of Way parcel contained the divided four- (4-) lane Highway 61 detailed in Section 4.3. Underground utilities and overhead electric distribution lines border the parcels along the roads and dissect the parcels of the Subject Property.

4.4.2 Chemical or Waste Storage, Drainage or Collection Systems

Underground storage tanks or ancillary UST equipment

Surface indications of USTs (e.g., fill ports, vent lines, pavement patching) were not observed on the Subject Property during the site reconnaissance.

Aboveground storage tanks

Features of ASTs (e.g., support stands, concrete saddle supports, vents or fill ports) were not observed on the Subject Property during the site reconnaissance.

Chemical storage and handling

Containers containing potentially hazardous chemicals or petroleum products were not observed on the Subject Property during the site reconnaissance other than empty farm application containers stored in various barns throughout the Subject Property.

Per- and Polyfluoroalkyl Substances

Per- and polyfluoroalkyl substances (PFAS) are a group of synthetic chemicals that have been in use since the 1940s. PFAS are chemically and thermally stable, and are resistant to heat, water, and oil. PFAS have been used in a wide range of products and processes, including firefighting foams, chemical processing, building/construction, electronics, semiconductor and automotive industries, stain- and water-resistant coatings, food packaging, waxes and cleaners. CEC did not observe suspect PFAS containing substances or equipment.

Solid waste, recycling, and waste material handling

No solid waste dumpsters or containers, trash or debris piles were observed on the Subject Property during the site reconnaissance.

Pipeline markers

No pipeline markers were observed on the Subject Property during the site reconnaissance.

CEC reviewed the National Pipeline Mapping System (NPMS) online records ([NPMS Public Viewer \(dot.gov\)](#)) for information regarding the on-site pipelines. The online viewer indicated that no pipelines were in the vicinity of the Subject Property.

4.4.3 Polychlorinated Biphenyls (PCBs)

Pad- or pole-mounted transformers and/or capacitors

Polychlorinated biphenyls (PCBs) are toxic additives used as coolants and insulating fluids in electrical transformers, capacitors, light ballasts, and other electrical equipment. U.S. EPA regulations prohibit the use of PCBs after 1979. No pole- or pad-mounted transformers or capacitors were observed on the Subject Property during the site reconnaissance.

4.4.4 Releases or Potential Releases

Fill dirt

No fill material was observed on the Subject Property that likely originated from off the Subject Property. Agricultural practices tend to move dirt around and sometimes create soil stockpiles, but that material is typically used within the vicinity of where it was gathered. Some uses of the local fill dirt consist of berm construction and filling in low areas to control drainage.

Staining, releases, or stressed vegetation

No visible signs of stains, leaks, or releases indicative of petroleum product or chemical discharges were noted on the Subject Property during the site reconnaissance.

4.5 ADJOINING PROPERTY RECONNAISSANCE

During the site reconnaissance, CEC conducted a visual observation of the adjoining properties from Subject Property boundaries or other public vantage points. Due to the number of individual adjoining properties broad generalizations of the adjoining properties were documented. The adjoining properties were not entered for inspection or observations of non-visible areas, obstructed areas, or building interiors. The adjoining property reconnaissance identified the following:

- The Subject Property consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri. The Subject

Property parcels are all generally bound by undeveloped agricultural fields or woodland, with the exception of:

- o Highway 61 and the various other roads dissecting the Subject Property discussed below; and
- o Four (4) farmsteads and single-family residences, Millcreek Estates subdivision, and Millcreek Baptist Church along Millcreek Road.

Visual observation of the adjoining properties did not identify features or activities indicative of RECs in connection with the Subject Property.

4.6 SITE RECONNAISSANCE SUMMARY

During the site reconnaissance, CEC observed the two (2) parcels were at least partially developed for agricultural purposes. Parcel 04-70-26-000-000-001.000 contained three (3) barns, two (2) grain silos, one (1) storm shelter, and several small shelters for cattle or hay storage; it also contained an overhead high voltage transmission line that transects the middle of the parcel mostly longitudinally. The State of Missouri Right of Way parcel contained the divided four- (4-) lane Highway 61. Underground utilities and overhead electric distribution lines border the parcels along the roads and dissect the parcels of the Subject Property.

Current uses of adjoining properties are primarily residential, agricultural, and undeveloped forested land. Visual observation of the adjoining properties did not identify features or activities indicative of RECs in connection with the Subject Property.

5.0 INTERVIEWS

CEC did not conduct in person interviews with current and previous landowners and operators; however, landowner questionnaires similar to the user questionnaire were conducted over the phone with the property owners. The Parcel 04-70-26-000-000-001.000 property owners were contacted in the original Limited Phase I ESA. Their responses did not indicate knowledge of environmental concerns.

6.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

6.1 FINDINGS

The following summarizes CEC's findings resulting from the completion of a Limited Phase I ESA conducted in accordance with ASTM Standard Practice E E2247-23 and CEC Proposal No. 354-818 for the Millcreek BESS project which consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri. Details are not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items presented below.

- The Subject Property currently contains agricultural cropland, pastureland, vacant/unimproved land, and agricultural structures. The Subject Property was identified on the MRDS database. The MRDS database record indicated the presence of industrially useful stone in the geology in the northwest portion of the Subject Property. This database record is not considered a REC for the Subject Property.
- Review of the FEMA Flood Zone Map information provided by ERIS, the westernmost portion of parcel 04-70-26-000-000-001.000, near Mill Creek, is mapped as 1% Annual Chance Flood Hazard. The remainder of the Subject Property is mapped as 0.2% Annual Chance of Flood Hazard.
- Based on review of readily available historical use information, the majority of the Subject Property was agricultural land with sparsely forested areas, intermittent and ephemeral streams and farmsteads from at least 1934 through the present. Historical topographic maps depict multiple structures, including Mill Creek School, on parcel 04-70-26-000-000-001.000 as early as 1934. By 1975, most of these structures, including the school, were no longer depicted. An unnamed cemetery was identified at the northern portion of parcel 04-70-26-000-000-001.000, and later topographic maps identify Ellis Cemetery and Mill Creek Cemetery adjacent to the Subject Property west of Millcreek Church Road. Other notable developments included improvements to Highway 61 and the installation of an overhead transmission line crossing the Subject

Property. No RECs, HRECs, or CRECs for the Subject Property were identified through the historical use information.

- During the site reconnaissance, CEC observed the two (2) parcels were at least partially developed for agricultural purposes. Parcel 04-70-26-000-000-001.000 contained three (3) barns, two (2) grain silos, one (1) storm shelter, and several small shelters for cattle or hay storage; it also contained an overhead high voltage transmission line that transects the middle of the parcel mostly longitudinally. Underground utilities and overhead electric distribution lines border the parcels along the roads and dissect the parcels of the Subject Property. Current uses of adjoining properties are primarily residential, agricultural, and undeveloped forested land. Visual observation of the adjoining properties did not identify features or activities indicative of RECs in connection with the Subject Property.

6.2 OPINION

Based on the scope of services, limitations, and findings of this assessment, it is CEC's opinion that conditions indicative of RECs, CRECs, HRECs, or *de minimis* conditions are not located on or near the Subject Property.

6.3 CONCLUSIONS

CEC has performed a Limited Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 2247-23 and CEC Proposal and Change Order No. 354-818 for the Millcreek BESS project which consists of an approximate 286-acre portion of an approximate 574-acre parcel, west of Highway 61, and approximately 54 acres of Highway 61 right-of-way, in northern Lincoln County, Missouri, east of Silex, Missouri. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has not revealed evidence of RECs, CRECs and/or HRECs in connection with the Subject Property.

7.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of the environmental professionals are included in Appendix G.

Tommy J. Goodwin

Name

Assistant Project Manager

Title


Signature

Beth N. Eckley

Name

Principal

Title

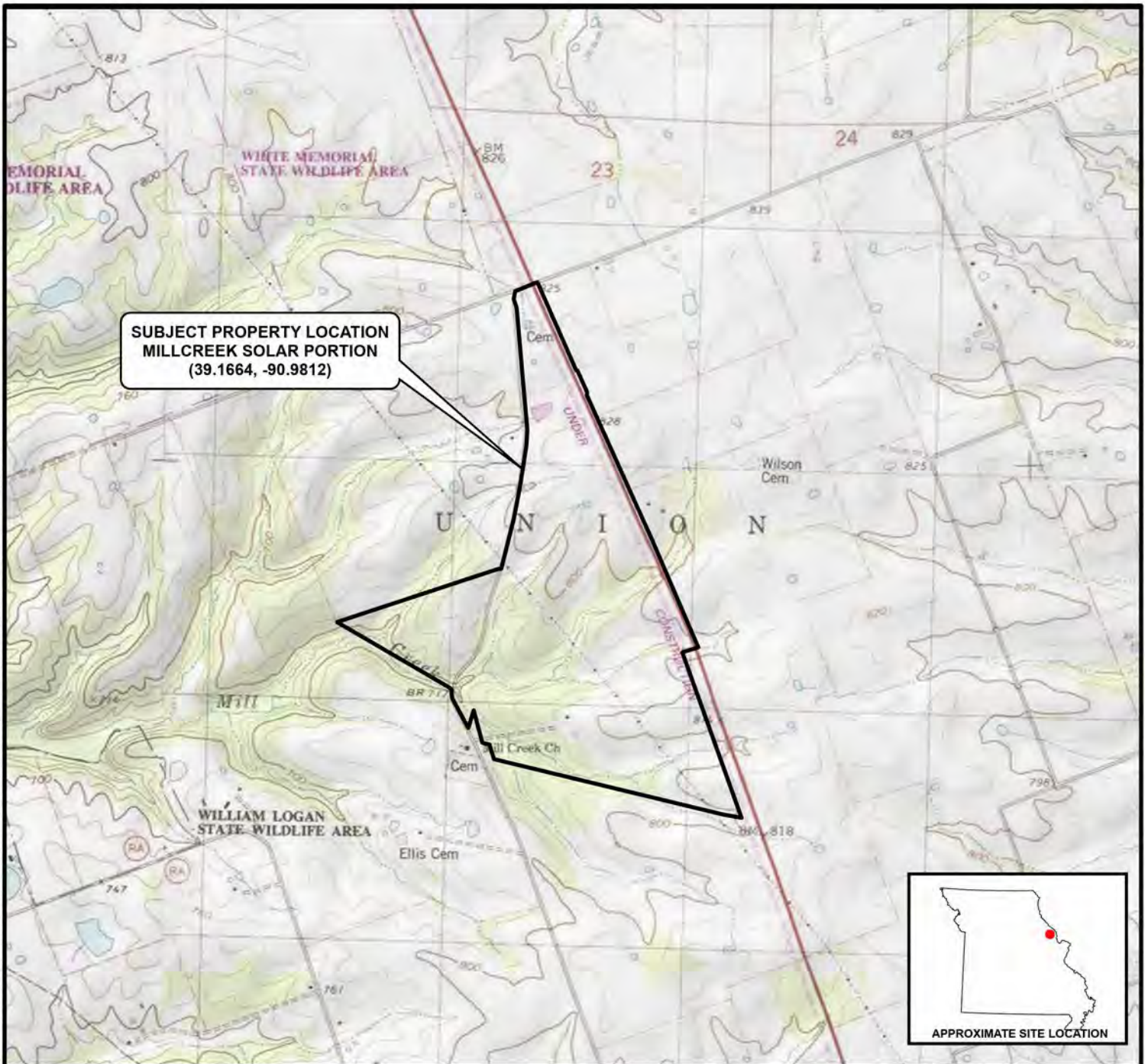

Signature

8.0 REFERENCES

- ASTM International (ASTM), ASTM E 2247-23, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property.
- ASTM International (ASTM), ASTM E 1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- Environmental Risk Information Services (ERIS). Physical Setting Report, Order No. 26081300772p, dated August 14, 2026, Millcreek BESS, Silex, Missouri.
- ERIS. Database Report, Order No. 26081300772, dated August 13, 2026, Millcreek BESS, Silex, Missouri.
- ERIS. Historical Aerials, Order No. 26081300772, dated August 18, 2026, Millcreek BESS, Silex, Missouri.
- ERIS. Topographic Maps, Order No. 26081300772, dated August 14, 2026, Millcreek BESS, Silex, Missouri.
- “Missouri Geological Maps 24K Collection.” Missouri Department of Natural Resources GeoSTRAT Online Map Viewer. Accessed August 17, 2026. <https://www.arcgis.com/apps/mapviewer/index.html?layers=13a8c6cbd58644b9b6c7d33b8dd27c2c>

FIGURES

P:\350-000\354-818-GIS\Maps\EN01_AmerenMillcreekREC_Phase1.aprx [354818_EN01_AmerenMillcreekBESS_Phase1_Fig1] 8/18/2026 8:47 AM (tgoodwin)



SUBJECT PROPERTY LOCATION
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(39.1664, -90.9812)

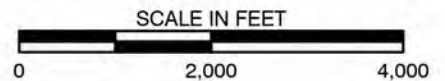
APPROXIMATE SITE LOCATION

LEGEND

 APPROXIMATE SUBJECT PROPERTY BOUNDARY



NORTH



REFERENCE(S):

1. USGS TOPOGRAPHIC MAP / ARCGIS MAP SERVICE:
ACCESSSED 8/18/2026.
AUBURN, MISSOURI QUADRANGLE
PUBLISHED 1985

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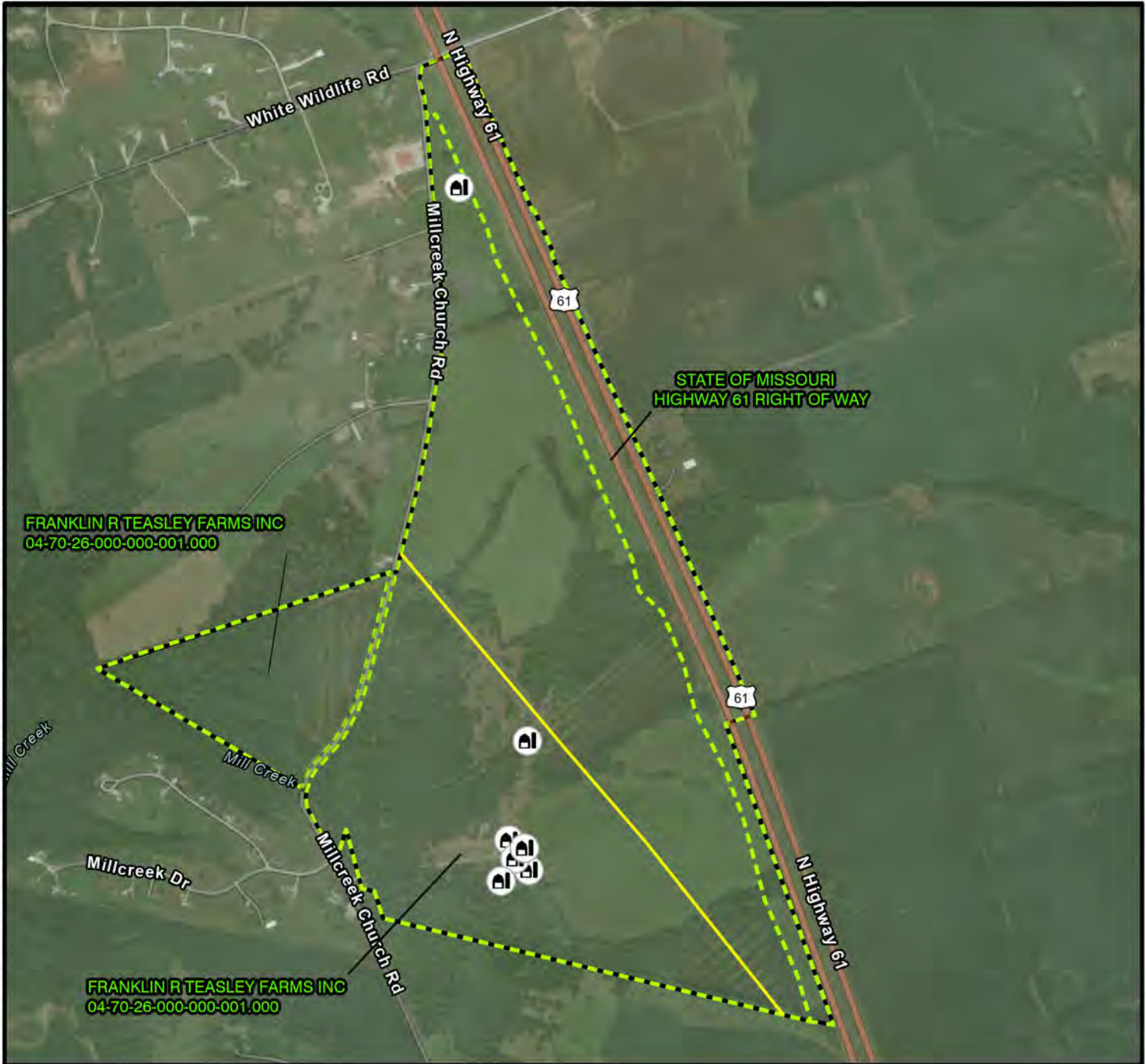
PHASE I ENVIRONMENTAL ASSESSMENT
MILLCREEK BESS PROJECT
AMEREN MISSOURI
LINCOLN COUNTY, MISSOURI

SUBJECT PROPERTY LOCATION MAP

DRAWN BY:	TJG	CHECKED BY:	BNE	APPROVED BY:	BNE*	FIGURE NO:
DATE:	8/18/2026	SCALE:	1" = 2,000'	PROJECT NO:	354-818	Attachment A

*Hand Signature on file

P:\350-000\354-818\GIS\Maps\EN01_AmerenMillcreekREC_Phase1.aprx [354818_EN01_AmerenMillcreekBESS_Phase1_Fig2] 8/17/2026 3:54 PM (tgoodwin)

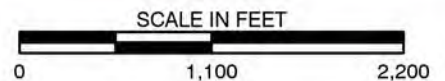


LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- HIGH-VOLTAGE TRANSMISSION
- AGRICULTURAL STRUCTURE



NORTH



REFERENCE(S):

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE. ACCESSED 8/18/2026
2. LINCOLN COUNTY MISSOURI ASSESSOR GIS. ACCESSED 2/5/2026

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PHASE I ENVIRONMENTAL ASSESSMENT
MILLCREEK BESS PROJECT
AMEREN MISSOURI
LINCOLN COUNTY, MISSOURI

SUBJECT PROPERTY DETAIL MAP

DRAWN BY:	TJG	CHECKED BY:	TJG	APPROVED BY:	BNE*	FIGURE NO:
DATE:	8/17/2026	SCALE:	1" = 1,100'	PROJECT NO:	354-818.0008	Attachment A

*Hand Signature on file

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION



Photo Number:

1

Description:

Representative view of the northern row-crop agricultural portion of parcel 04-70-26-000-000-001.000. Direction of view (DOV) is southeast.



Photo Number:

2

Description:

Representative view of the central row-crop agricultural portion of parcel 04-70-26-000-000-001.000. DOV is west.



Civil & Environmental Consultants, Inc.

St. Charles, MO 63303
Phone: (314) 656-4566
www.cecinc.com

**Project Name: Millcreek BESS Project -
Limited Phase I ESA**

Client Name: Ameren Missouri

Project Number: 354-818.0008



Photo Number:

3

Description:

Representative view of structures of farmstead on parcel 04-70-26-000-000-001.000. DOV is north.



Photo Number:

4

Description:

Representative view of structures of farmstead on parcel 04-70-26-000-000-001.000. DOV is east.



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**Project Name: Millcreek BESS Project -
Limited Phase I ESA**

Client Name: Ameren Missouri

Project Number: 354-818.0008



Photo Number:

5

Description:

Representative view of structures of farmstead on parcel 04-70-26-000-000-001.000. DOV is southeast.



Photo Number:

6

Description:

Representative view of an abandoned grain silo and the pasture portion of parcel 04-70-26-000-000-001.000. DOV is east.



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**Project Name: Millcreek BESS Project -
Limited Phase I ESA**

Client Name: Ameren Missouri

Project Number: 354-818.0008



Photo Number:

7

Description:

Representative view of the maintained Highway-61 right-of-way. DOV is north.



Photo Number:

8

Description:

Representative view of the maintained Highway-61 right-of-way. DOV is south.



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St. Charles, MO 63303

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www.cecinc.com

Project Name: Millcreek BESS Project -
Limited Phase I ESA

Client Name: Ameren Missouri

Project Number: 354-818.0008

APPENDIX B

USER PROVIDED INFORMATION & QUESTIONNAIRE

Instructions: Please answer the following questions to the best of User's ability, and provide relevant documentation as requested and/or necessary. NOTE: If the User cannot provide some or all of the information requested in this questionnaire, CEC will report the missing information as a data gap in the Phase I ESA report. For clarity, User is defined in the ASTM standard as "the party seeking to use practice E 2247 to complete an environmental assessment of the property."

USER PROVIDED INFORMATION-USER QUESTIONNAIRE

Per EPA 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry), and ASTM E 2247-23 (Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property), in order to qualify for one of the *Landowner Liability Protections (LLPs)*, offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must conduct the following inquiries. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

Please complete and e-mail to your CEC representative at tgoodwin@cecinc.com. Thank you!

Business Name of User: Ameren Missouri

User Contact Name: Brad Wentz

Phone Number: 314.200.5550

Project Name: Proposed Millcreek BESS Project

Project Address: Northern Lincoln County, MO

(1.) Environmental cleanup liens that are filed or recorded against the property (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

Unknown, title search pending.

(2.) Activity and use limitations (AULs) that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v)).

Did a search of *recorded land title records* (or judicial records where appropriate) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?

Unknown, title search pending.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No, other than farm chemicals.

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Yes, for those parcels that have purchase options.

(5.) Commonly known or reasonably ascertainable information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example:

- (a.) Do you know the past uses of the *property*?
- (b.) Do you know of specific chemicals that are present or once were present at the *property*?
- (c.) Do you know of spills or other chemical releases that have taken place at the *property*?
- (d.) Do you know of any environmental cleanups that have taken place at the *property*?

See Property Illustrations (Exhibit "B") and Seller's Disclosures (Exhibit "C").

(6.) The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?

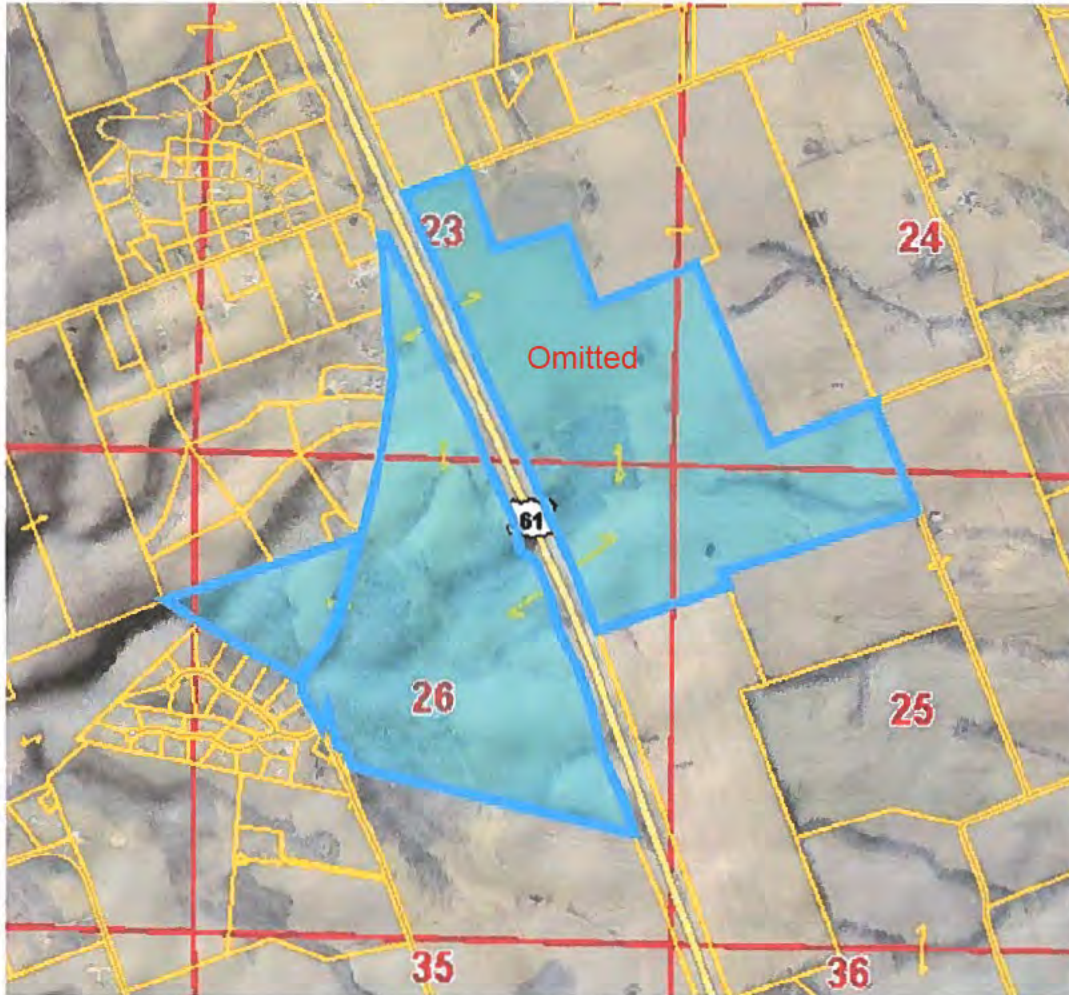
See Property Illustrations (Exhibit "B") and Seller's Disclosures (Exhibit "C").

Completed by:

By: Brad Wentz Date: August 14, 2026
Title: Battery Storage Development Manager Company: Ameren Missouri

EXHIBIT "B"
(Property Illustration)

Parcel 1:



Tax Identification Number: 04-70-26-000-000-001.000

EXHIBIT "C"
(Seller's Disclosures)

- Existing Contracts affecting the Property (including leases, easements, licenses, rights of way):
 - Any default or right of set-off held by any party to any existing Contracts:
_____ None _____
- Holders of any subsurface estate or interest: _____ None _____
- Any condemnation, environmental, zoning, or other land-use regulation proceedings, either ongoing or planned, of which Seller has knowledge: _____ None _____
- Any special assessment proceedings affecting the Property of which Seller has notice:
_____ None _____
- Any outstanding and unsatisfied judgments against Seller or the Property:
_____ None _____
- Any litigation at law or in equity, or any other court proceeding, or proceeding by or before any governmental or administrative agency, existing, pending, or threatened, involving Seller or the Property:
_____ None _____
- Any non-compliance of the Property with applicable laws, rules, or regulations affecting the Property:
_____ None _____
- Any construction performed on the Property that has not been paid in full:
_____ None _____
- Any hazardous or regulated substances used or stored at the Property or otherwise discharged or released on the Property, which includes, but is not limited to, underground injection of such substances in violation of any federal, state, or local environmental law, ordinance, rule, or regulation:
_____ Only farm chemicals _____
 - Seller's knowledge of any other party that has used, stored, discharged, or released hazardous or regulated substances affecting the Property:
_____ Only farm chemicals _____
- Any wells, including inactive wells, that exist on the Property, including location thereof and details as to use: One water well
 - Any inactive wells that have been properly decommissioned in accordance with federal and state regulations:
_____ None _____
- Any aboveground or underground tanks located in or about the Property now or previously:
_____ None _____
- Any portion of the Property currently enrolled in CRP, WRP, or other similar federal or state programs:
_____ None _____
- Any airport zoning regulations affecting the Property: _____ None _____

- Any Seller insolvency proceedings: None
- Any other potential issues that could affect the development of the Project on the Property:

One ^{Family} Cemetery with wire fence and trees
 located east of residence in field - last visited ^{years} ago

The foregoing categories are not meant to be limiting or comprehensive. If there is any other information that would result in any representations or warranties made by Seller in the Agreement being untrue or incurred, such information should be disclosed by Seller herein.

Frank R. Teasley inc.
 by Frank R. Teasley
 Pres.

9-12-25

APPENDIX C

PHYSICAL SETTING REPORT



Property Information

Order Number:	26081300772p
Date Completed:	August 14, 2026
Project Number:	
Project Property:	Millcreek BESS Ave of the Saints Silex MO
Coordinates:	
Latitude:	39.16074591
Longitude:	-90.98073151
UTM Northing:	4336556.8307 Meters
UTM Easting:	674463.0689 Meters
UTM Zone:	UTM Zone 15S
Elevation:	772.13 ft
Slope Direction:	SE

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Hydrologic Information.....	12
Geologic Information.....	21
Soil Information.....	26
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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 (2021)

0 0.3 0.6 1.2 Miles

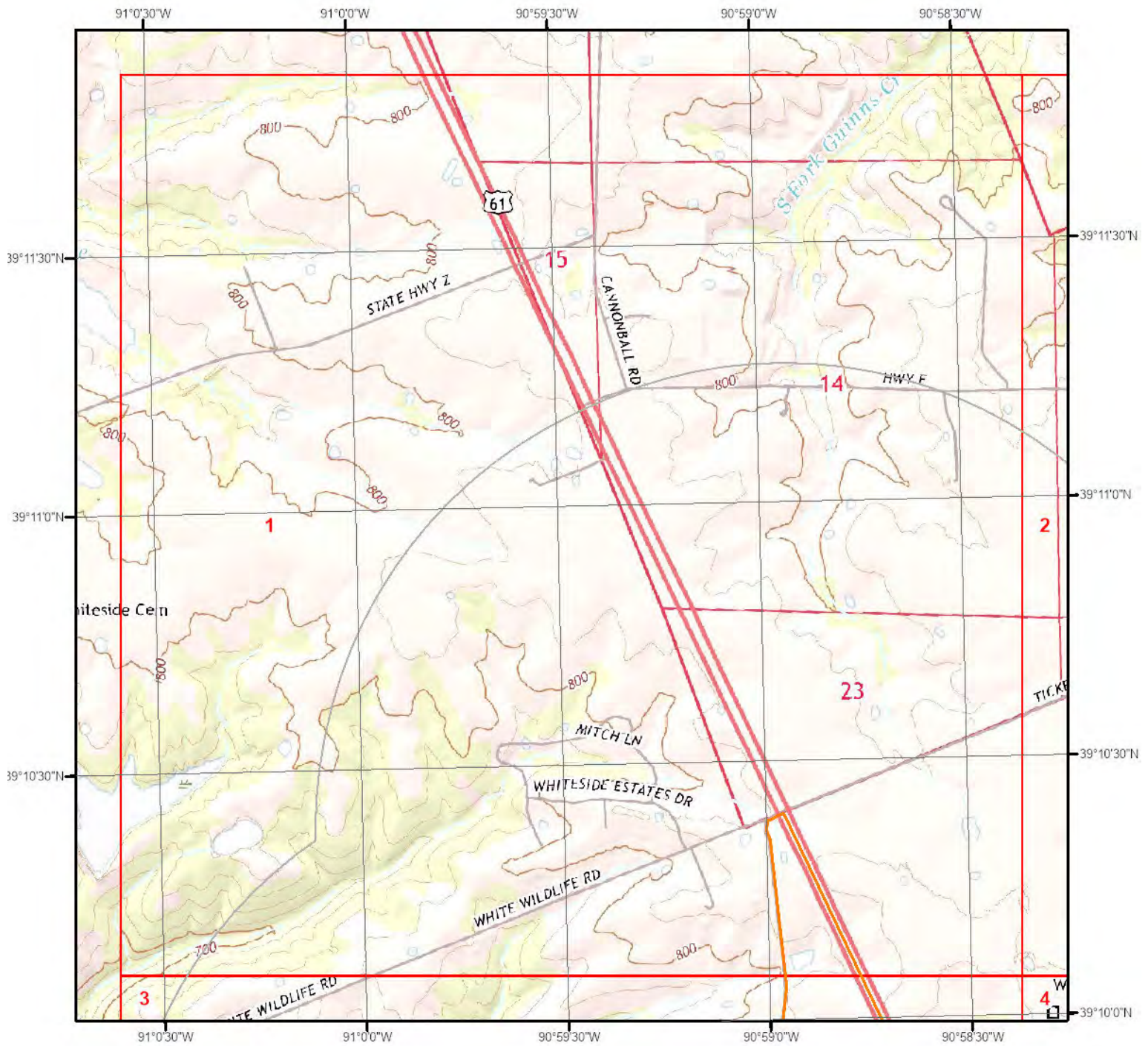


Quadrangle(s): Auburn, MO; Eolia, MO

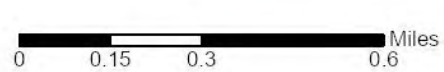
Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 1

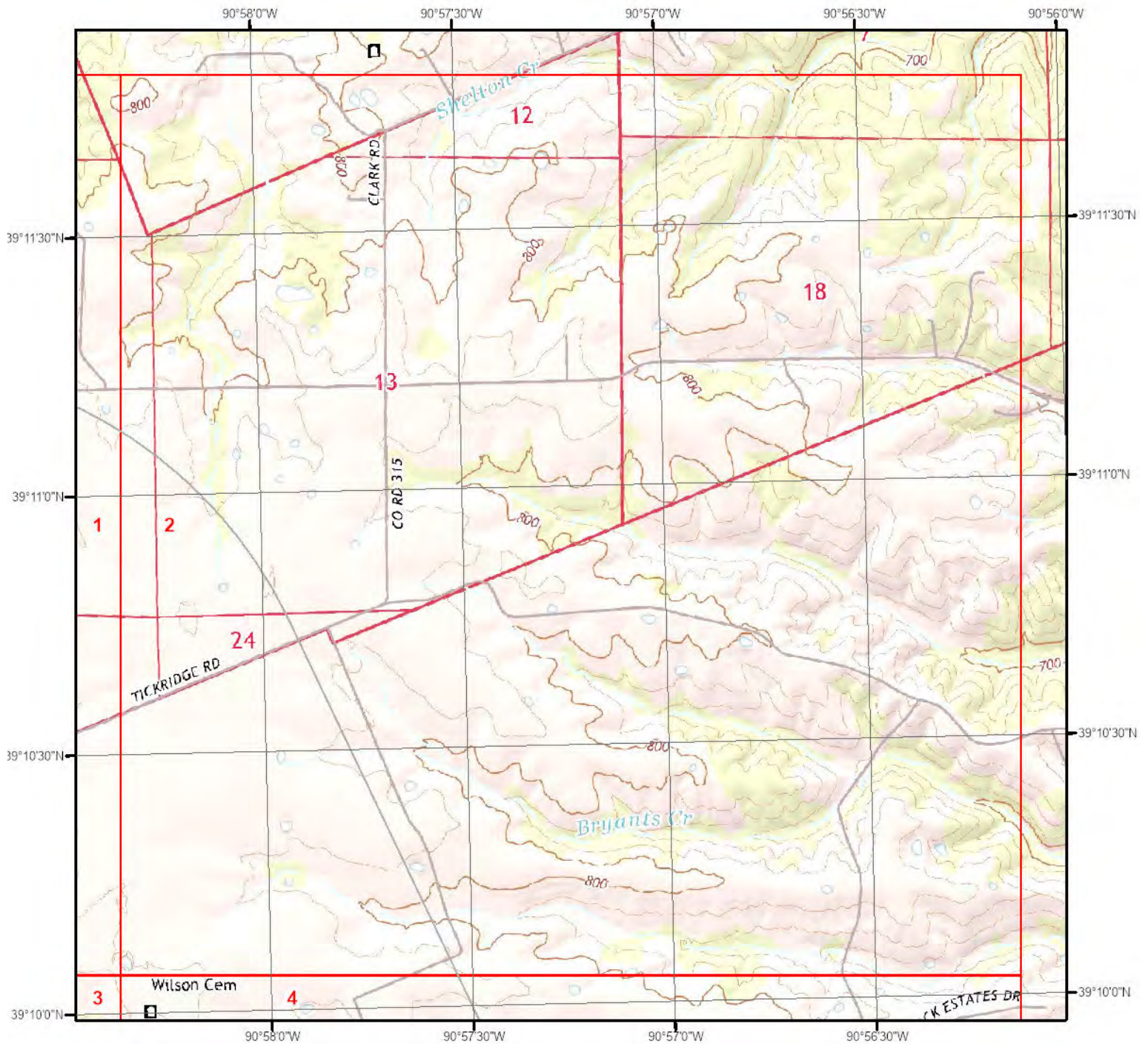


Quadrangle(s): Auburn,MO; Eolia,MO

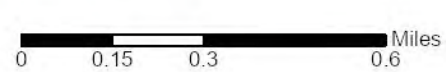
Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 2



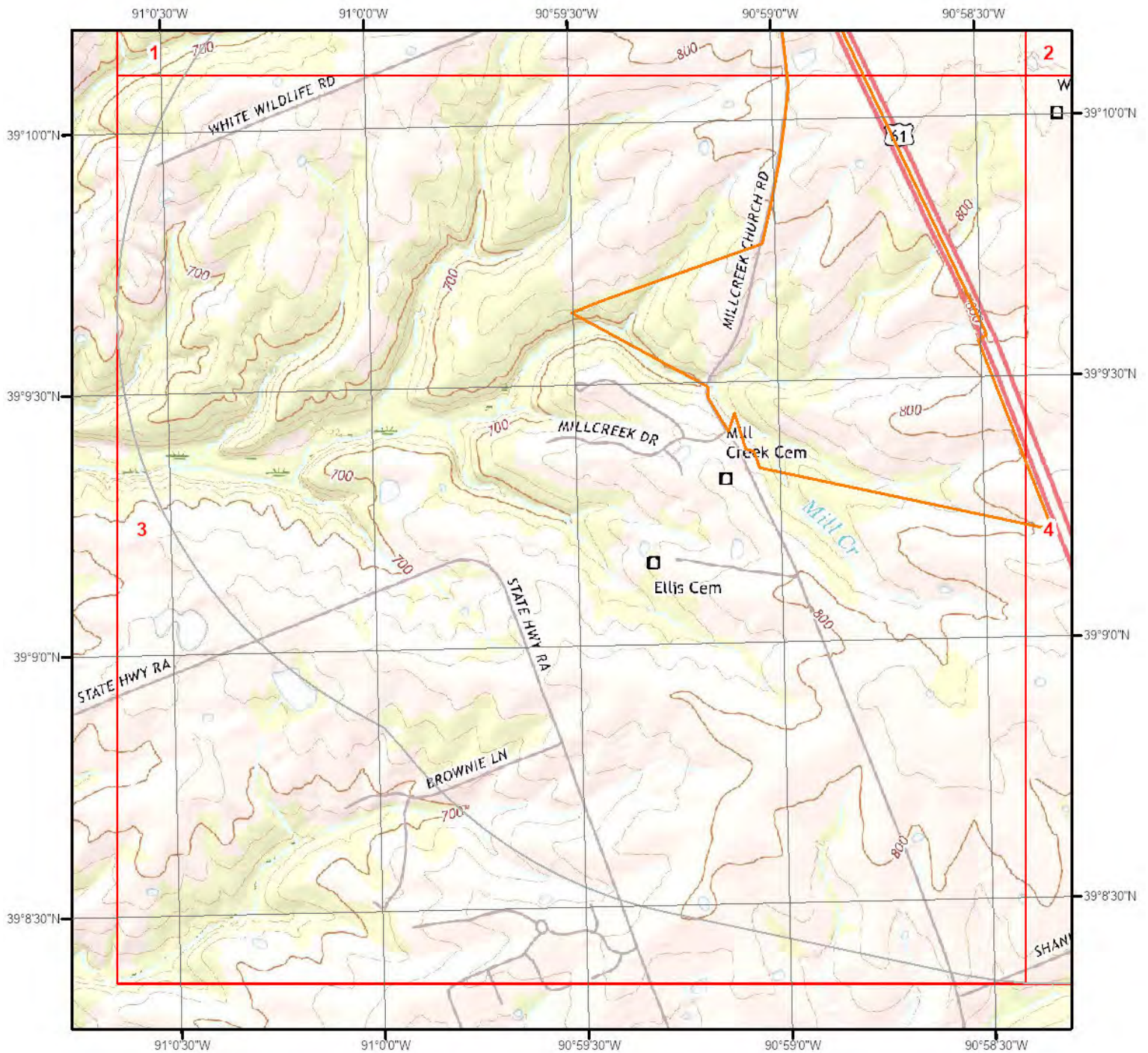
Quadrangle(s): Auburn, MO

Source: USGS 7.5 Minute Topographic Map



Attachment A

Topographic Information



Current USGS Topo - Page 3



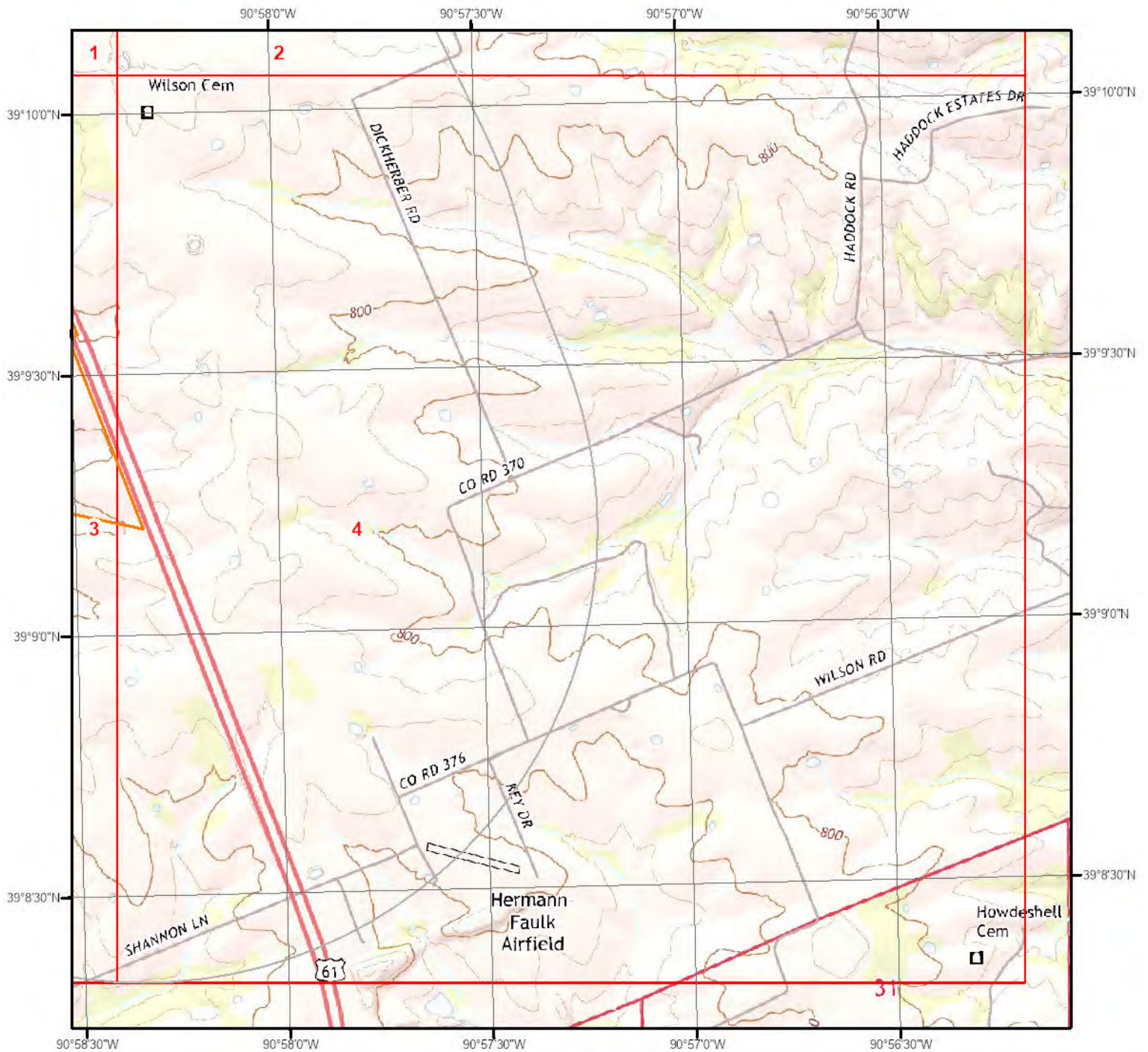
Quadrangle(s): Auburn, MO; Eolia, MO

Source: USGS 7.5 Minute Topographic Map



Attachment A

Topographic Information



Current USGS Topo - Page 4

0 0.15 0.3 0.6 Miles



Quadrangle(s): Auburn, MO

Source: USGS 7.5 Minute Topographic Map



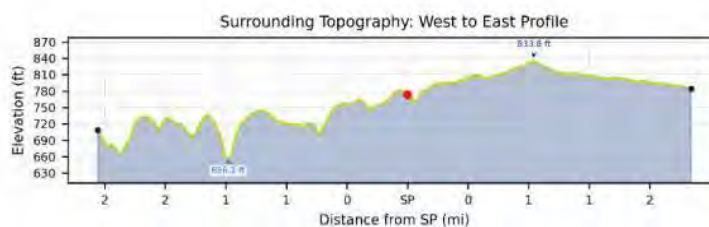
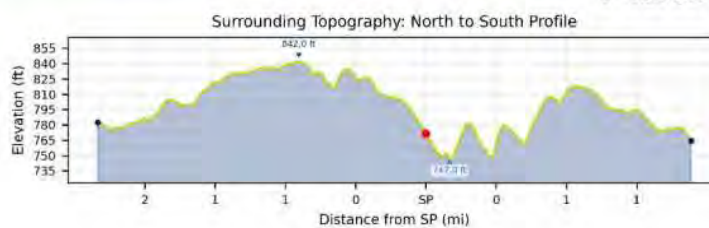
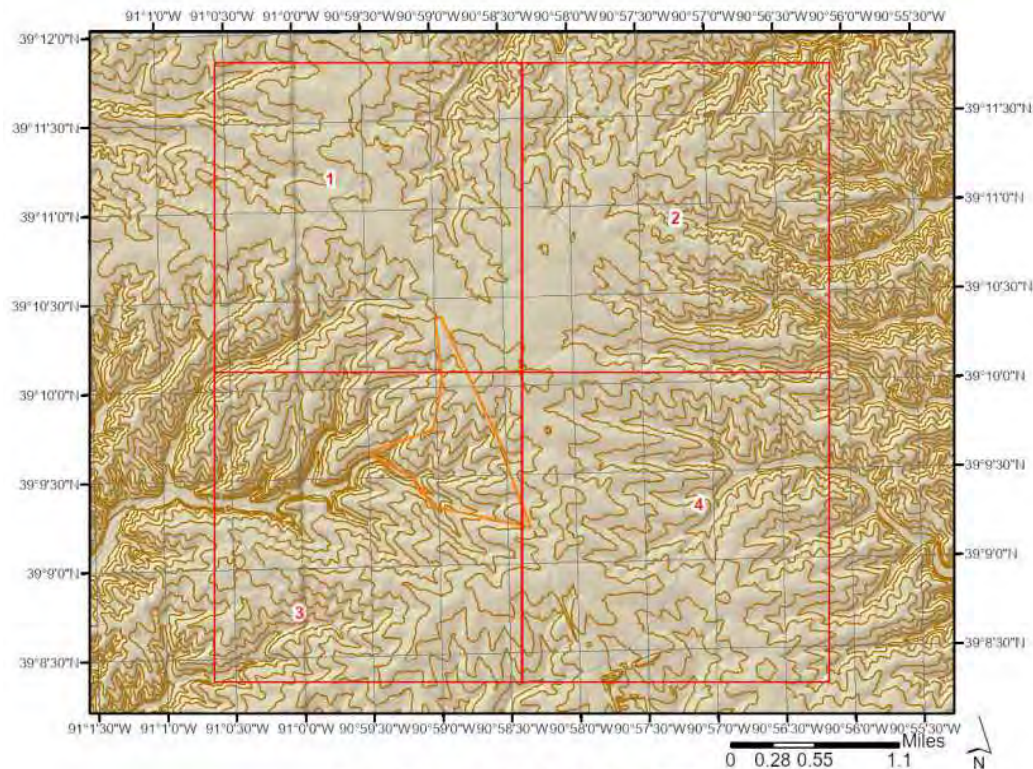
Attachment A

Topographic Information

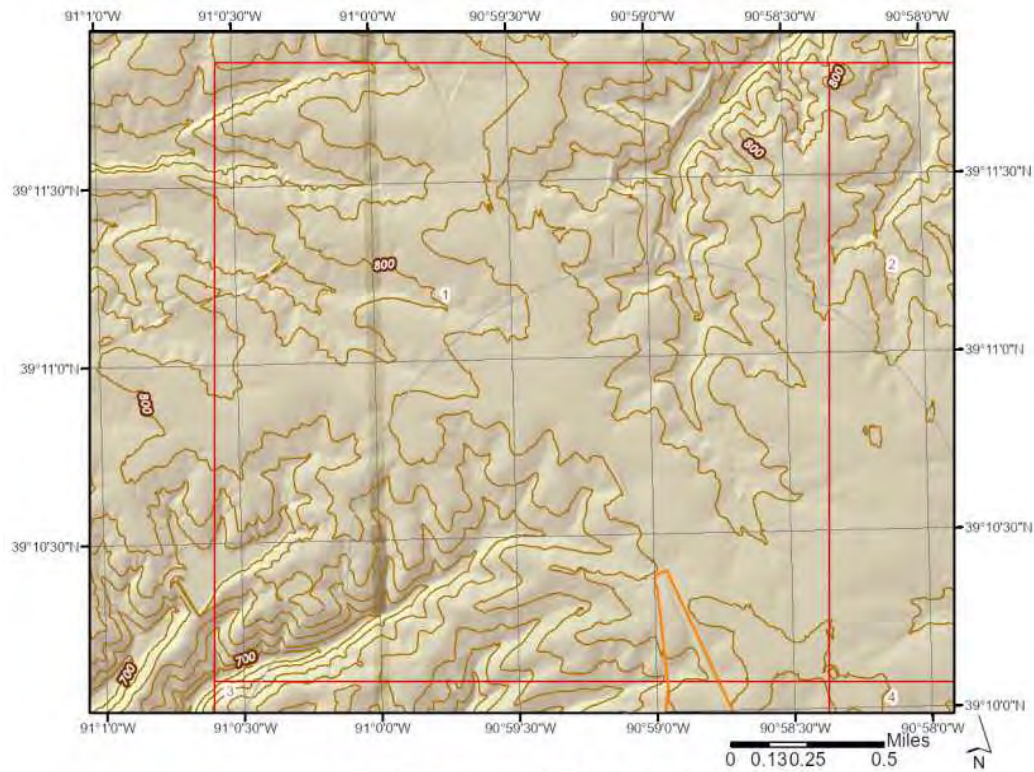
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation: 772.13 ft
Slope Direction: SE



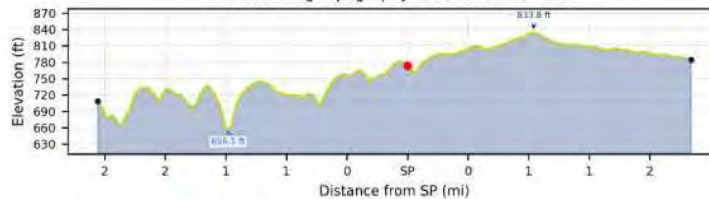
Topographic Information



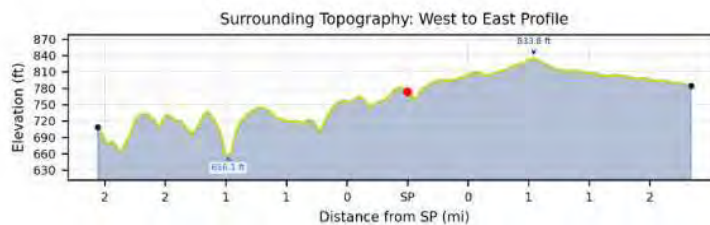
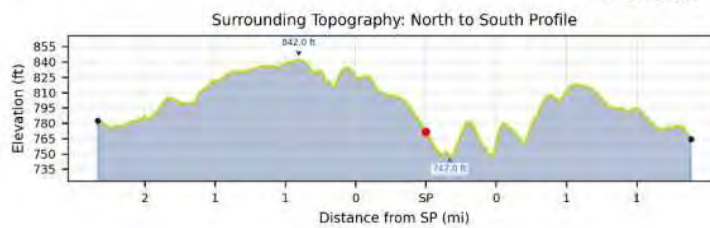
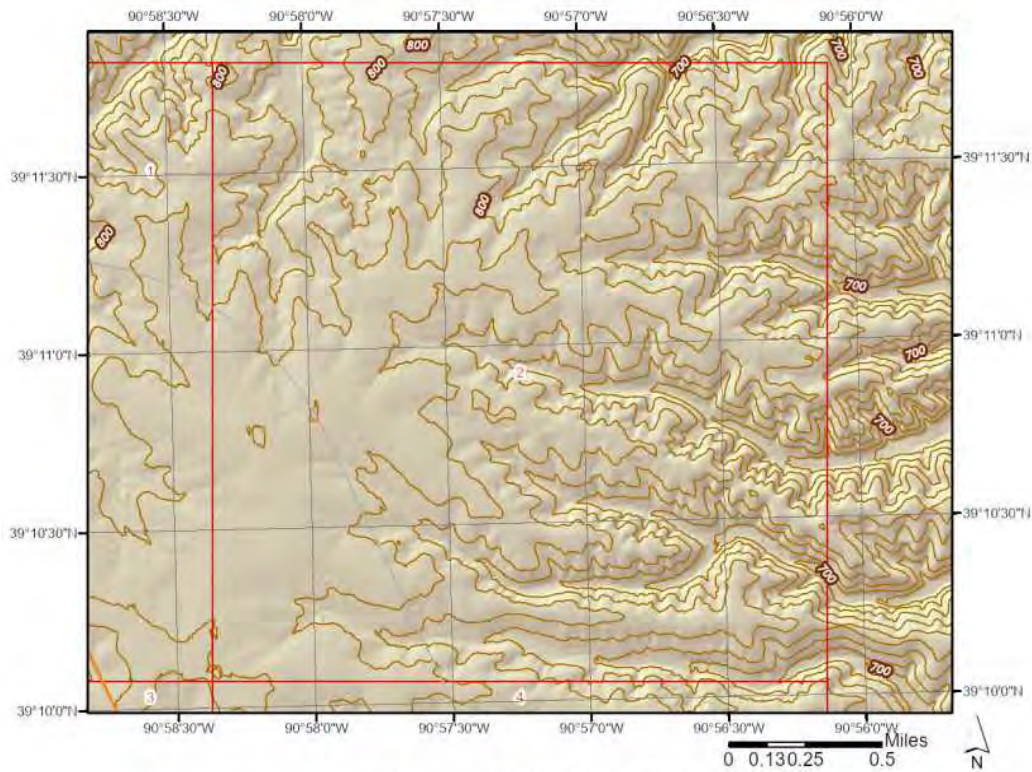
Surrounding Topography: North to South Profile



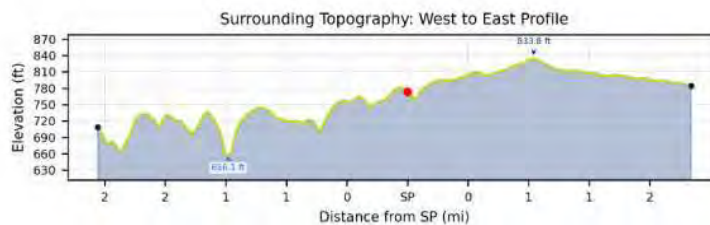
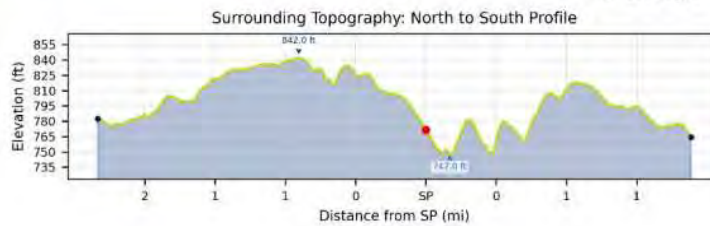
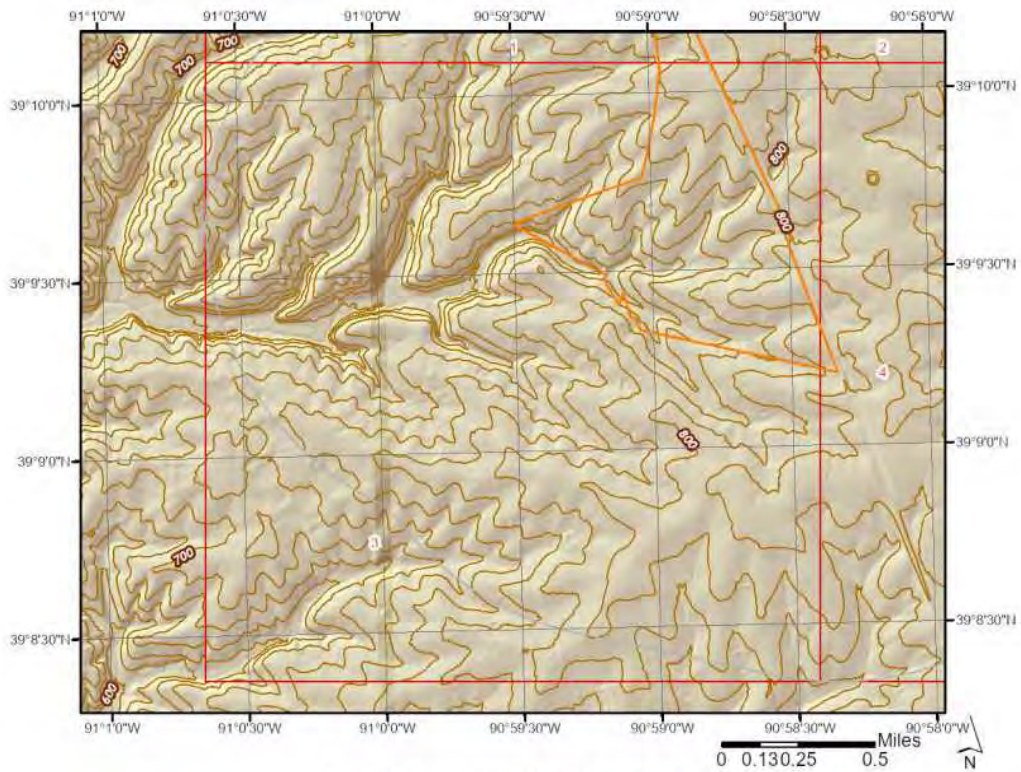
Surrounding Topography: West to East Profile



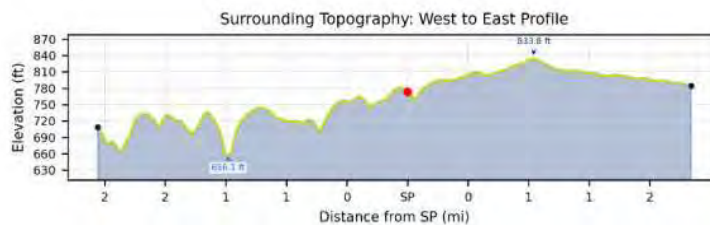
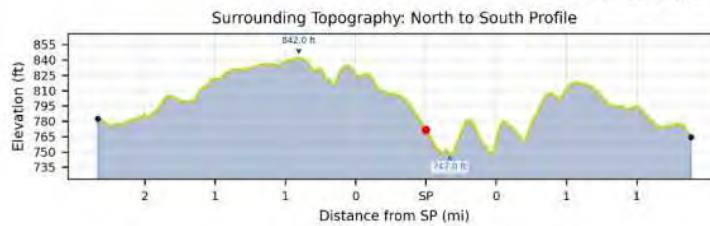
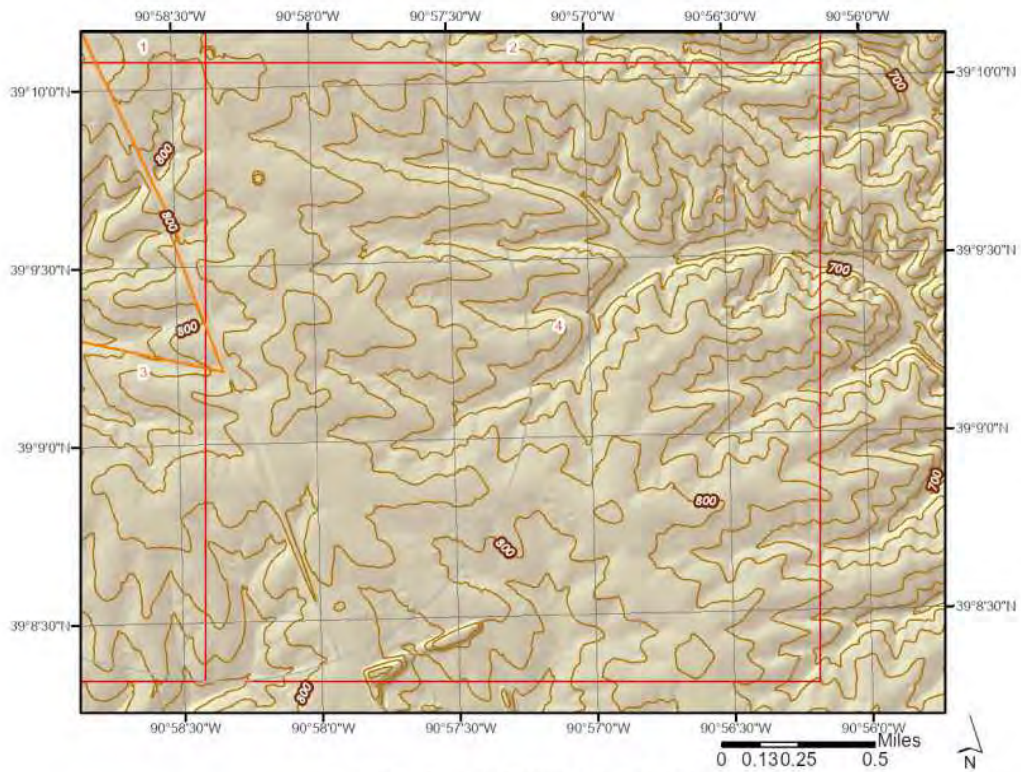
Topographic Information



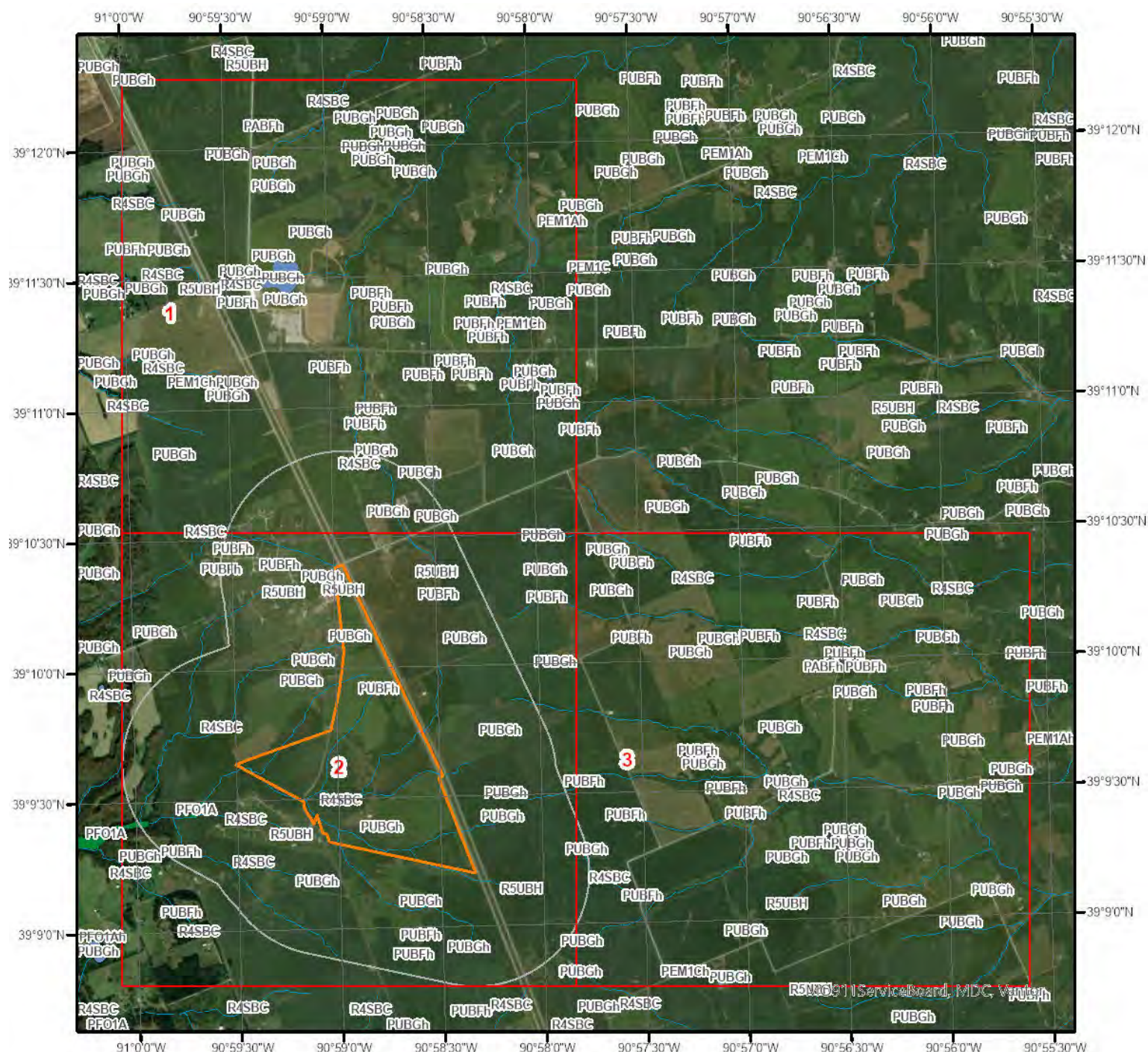
Topographic Information



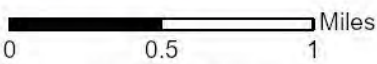
Topographic Information



Hydrologic Information



Wetland

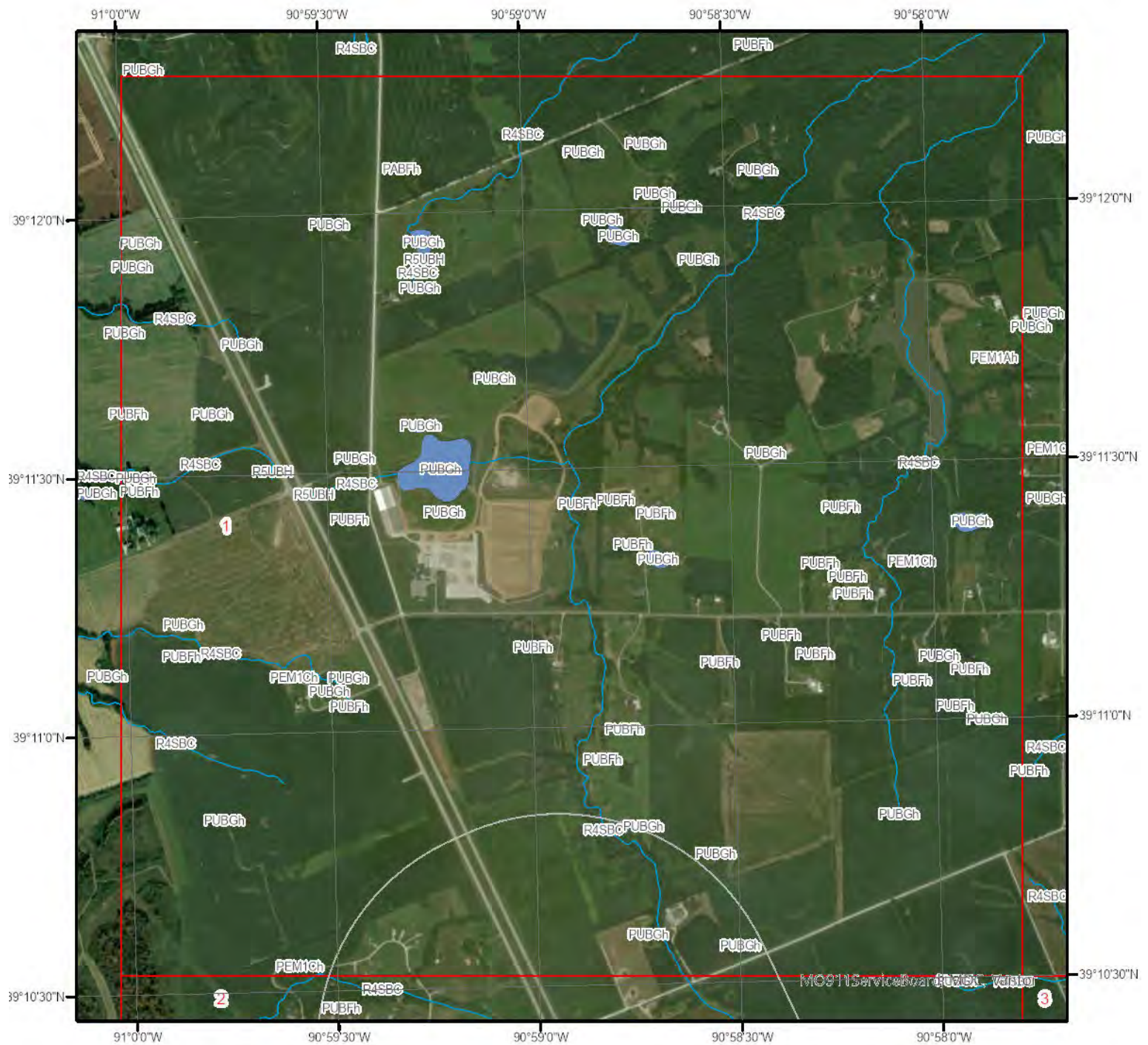


This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

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

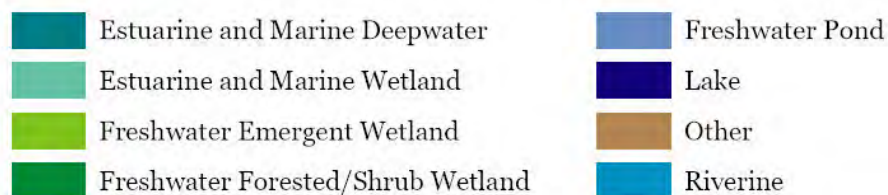


Hydrologic Information



Wetland Type - Page 1

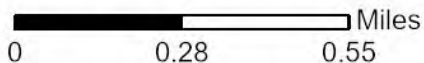
This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.



Hydrologic Information



Wetland Type - Page 2



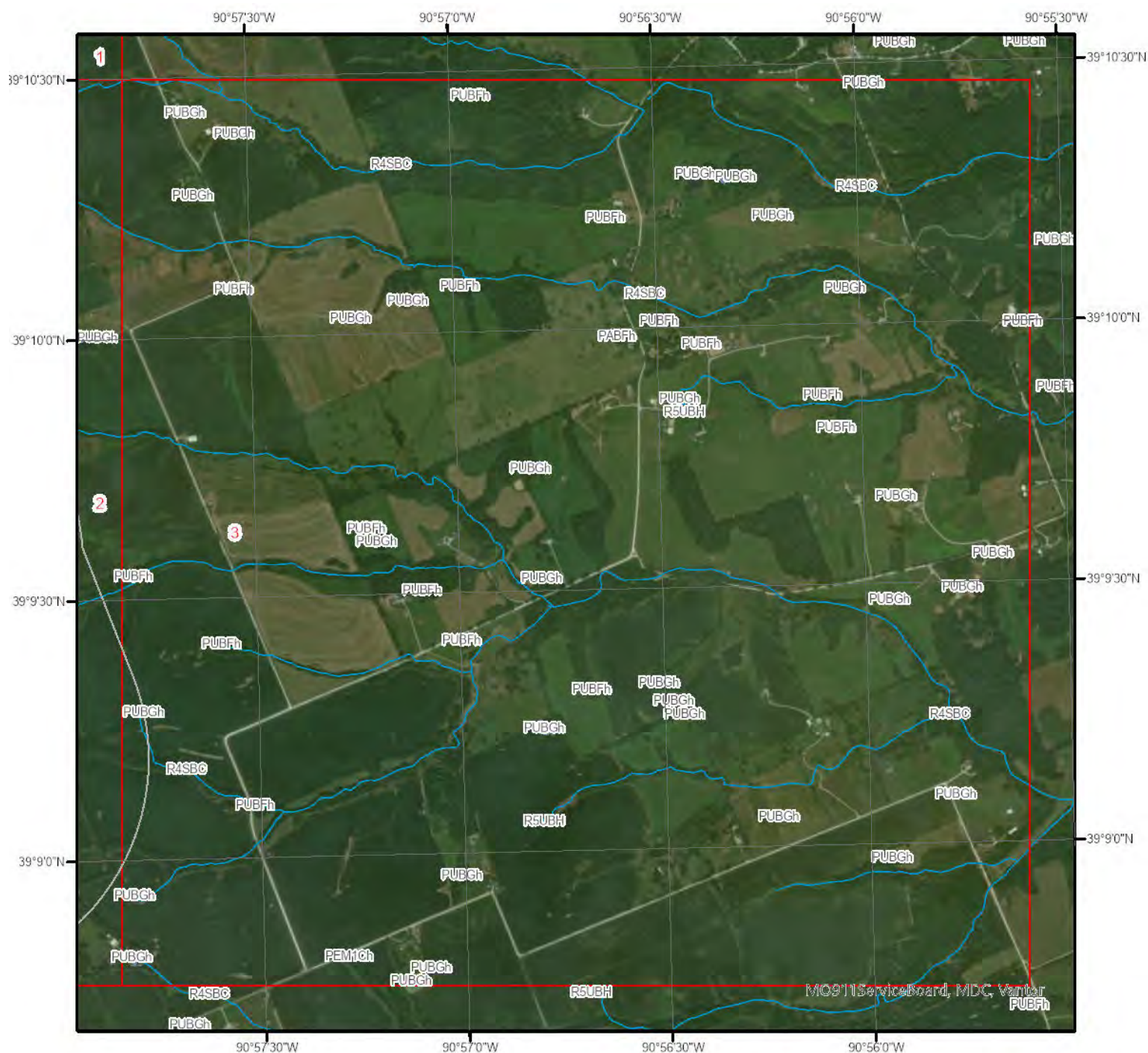
This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

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

- Freshwater Pond
- Lake
- Other
- Riverine

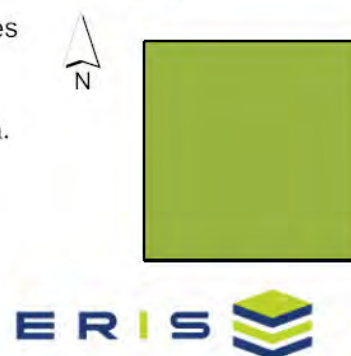


Hydrologic Information



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.



Hydrologic Information

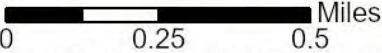


Flood Hazard Zones

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlayed. An absent FIRM panel represents no data available.

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard

- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Open Water



Quadrangle(s): Auburn,MO; Eolia,MO



Hydrologic Information



Flood Hazard Zones - Page 1

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlaid. An absent FIRM panel represents no data available.

- | | |
|-----------------------------------|---|
| 0.2% Annual Chance Flood Hazard | Future Conditions 1% Annual Chance Flood Hazard |
| 1% Annual Chance Flood Hazard | Area with Reduced Risk Due to Levee |
| Regulatory Floodway | Area with Risk Due to Levee |
| Special Floodway | Open Water |
| Area of Undetermined Flood Hazard | |

Quadrangle(s):



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: 29113C0090D(effective:2010-09-29) 29163C0500C(effective:2010-04-19)

Flood Zone A-01

Zone: A

Zone subtype:

Flood Zone X-12

Zone: X

Zone subtype: AREA OF MINIMAL FLOOD HAZARD

FEMA Flood Zone Definitions

Special Flood Hazard Areas – High Risk

Special Flood Hazard Areas represent the area subject to inundation by 1-percent-annual chance flood. Structures located within the SFHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory flood insurance purchase requirements apply in these zones.

ZONE	DESCRIPTION
A	Areas subject to inundation by the 1-percent-annual-chance flood event. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown.
AE, A1-A30	Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.)
AH	Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually areas of ponding) where average depths are 1–3 feet. BFEs derived from detailed hydraulic analyses are shown in this zone.
AO	Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually sheet flow on sloping terrain) where average depths are 1–3 feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.
AR	Areas that result from the decertification of a previously accredited flood protection system that is determined to be in the process of being restored to provide base flood protection.
A99	Areas subject to inundation by the 1-percent-annual-chance flood event, but which will ultimately be protected upon completion of an under-construction Federal flood protection system. These are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as dikes, dams, and levees, to consider it complete for insurance rating purposes. Zone A99 may be used only when the flood protection system has reached specified statutory progress toward completion. No BFEs or flood depths are shown.

Coastal High Hazard Areas – High Risk

Coastal High Hazard Areas (CHHA) represent the area subject to inundation by 1-percent-annual chance flood, extending from offshore to the inland limit of a primary front al dune along an open coast and any other area subject to high velocity wave action from storms or seismic sources. Structures located within the CHHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory purchase requirements apply in these zones.

ZONE	DESCRIPTION
V	Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards associated with storm-induced waves. Because detailed coastal analyses have not been performed, no BFEs or flood depths are shown.
VE, V1-V30	Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards due to storm-induced velocity wave action. BFEs derived from detailed hydraulic coastal analyses are shown within these zones. (Zone VE is used on new and revised maps in place of Zones V1–V30.)

Hydrologic Information

Moderate and Minimal Risk Areas

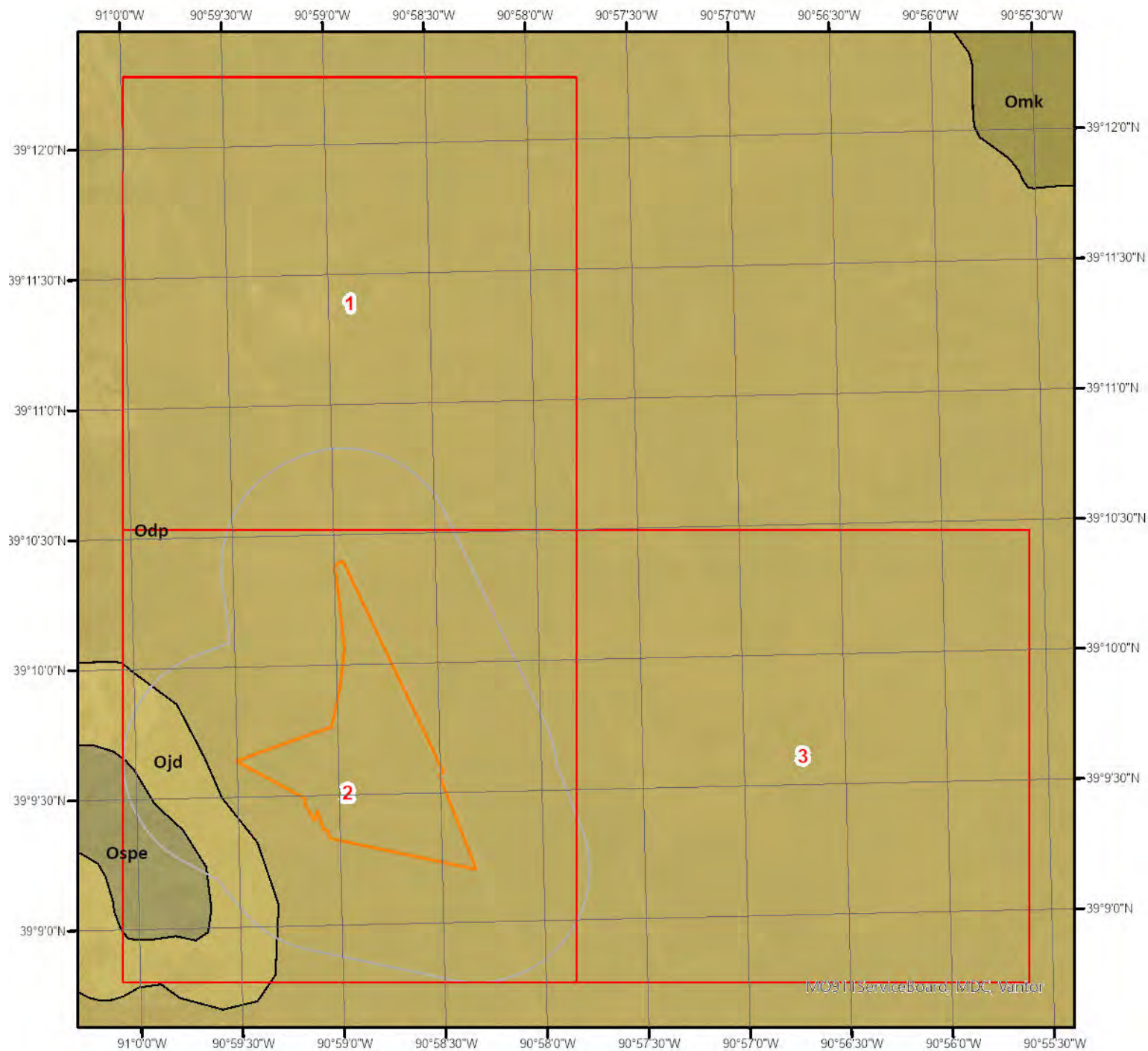
Areas of moderate or minimal hazard are studied based upon the principal source of flood in the area. However, buildings in these zones could be flooded by severe, concentrated rainfall coupled with inadequate local drainage systems. Local stormwater drainage systems are not normally considered in a community's flood insurance study. The failure of a local drainage system can create areas of high flood risk within these zones. Flood insurance is available in participating communities, but is not required by regulation in these zones. Nearly 25-percent of all flood claims filed are for structures located within these zones.

ZONE	DESCRIPTION
B, X (shaded)	Moderate risk areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by a levee. No BFEs or base flood depths are shown within these zones. (Zone X (shaded) is used on new and revised maps in place of Zone B.)
C, X (unshaded)	Minimal risk areas outside the 1-percent and .2-percent-annual-chance floodplains. No BFEs or base flood depths are shown within these zones. (Zone X (unshaded) is used on new and revised maps in place of Zone C.)

Undetermined Risk Areas

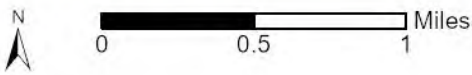
ZONE	DESCRIPTION
D	Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

Geologic Information

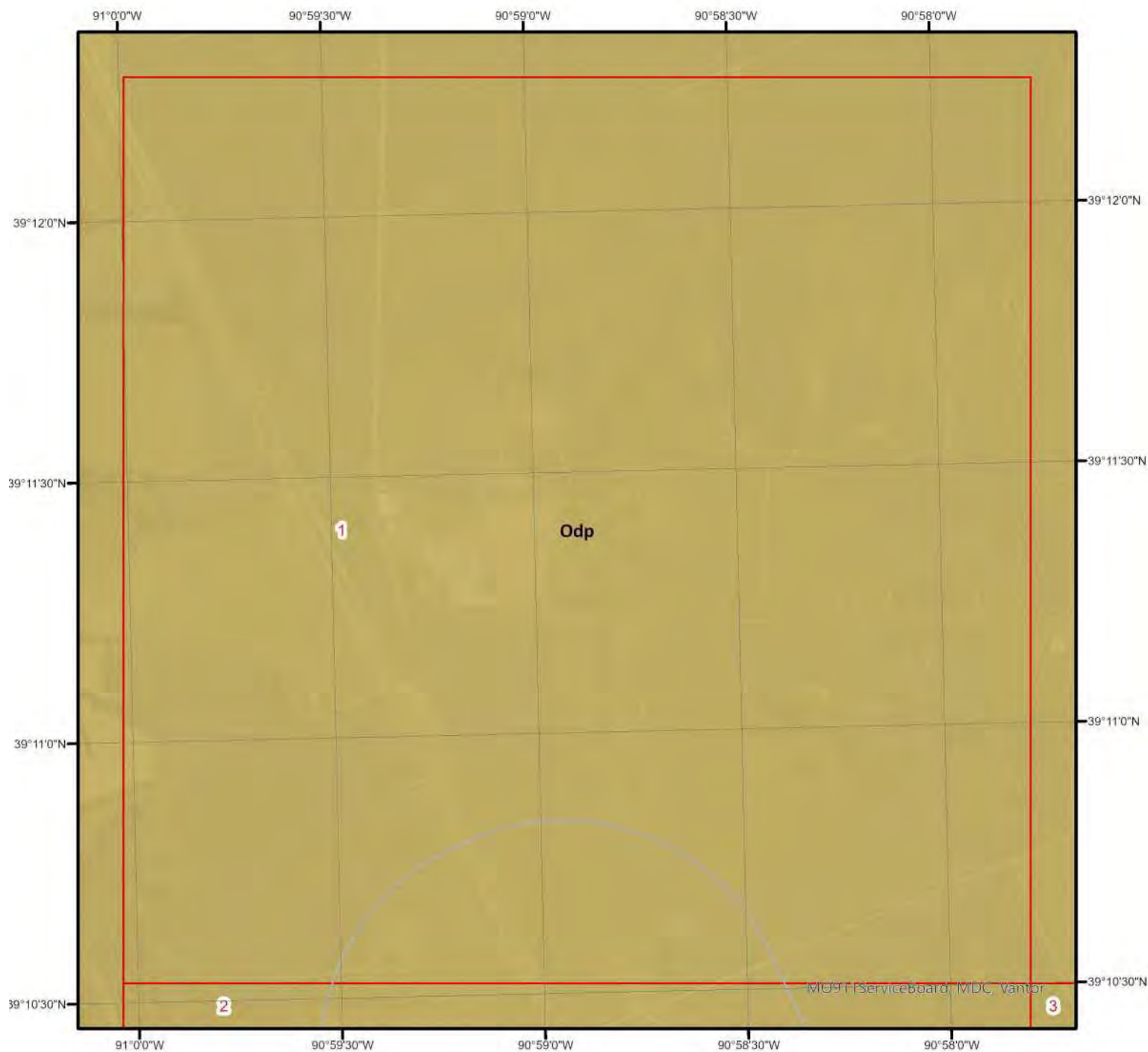


Geologic Units

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

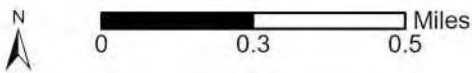


Geologic Information

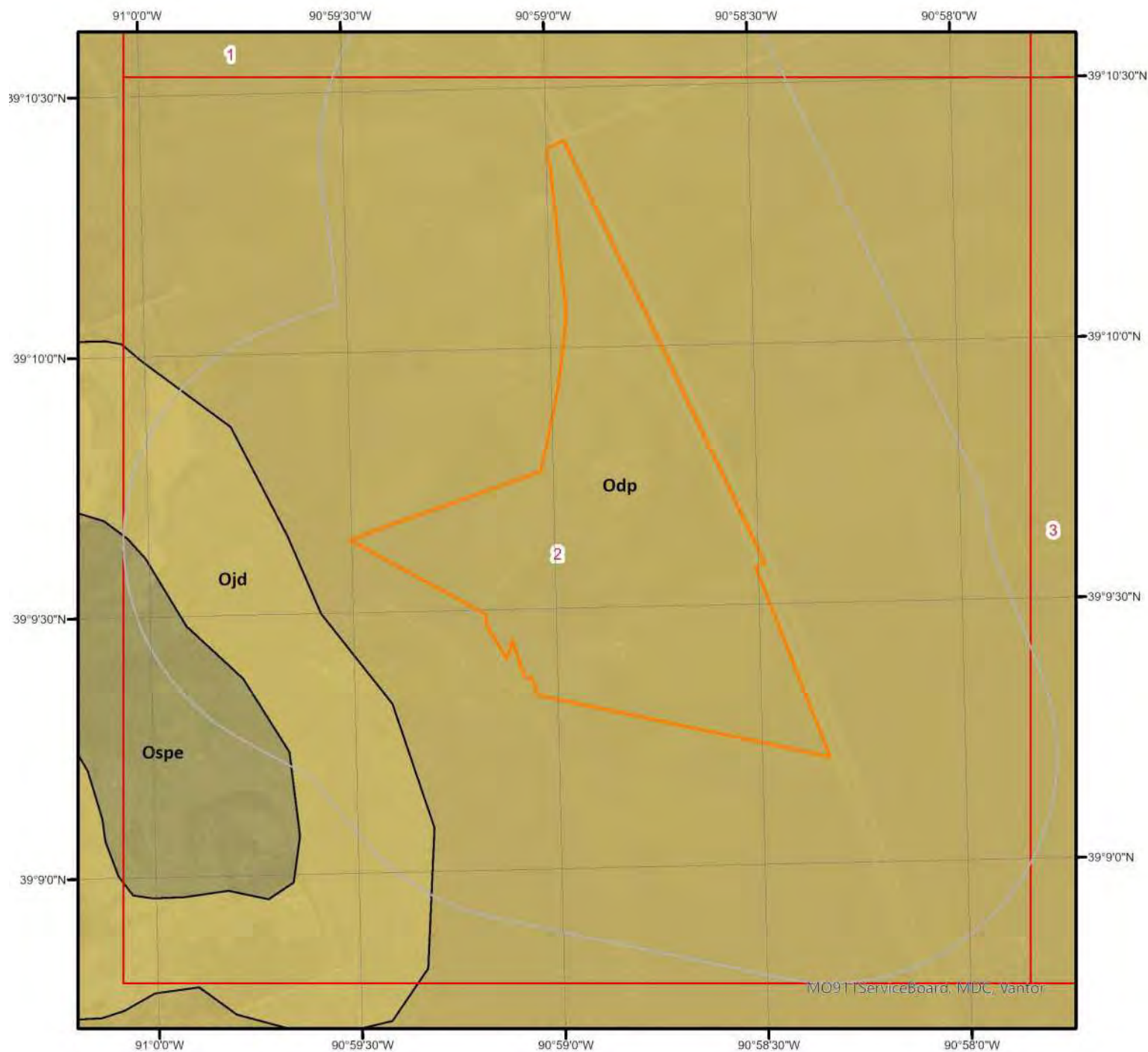


Geologic Units - Page 1

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

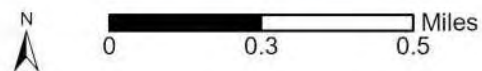


Geologic Information

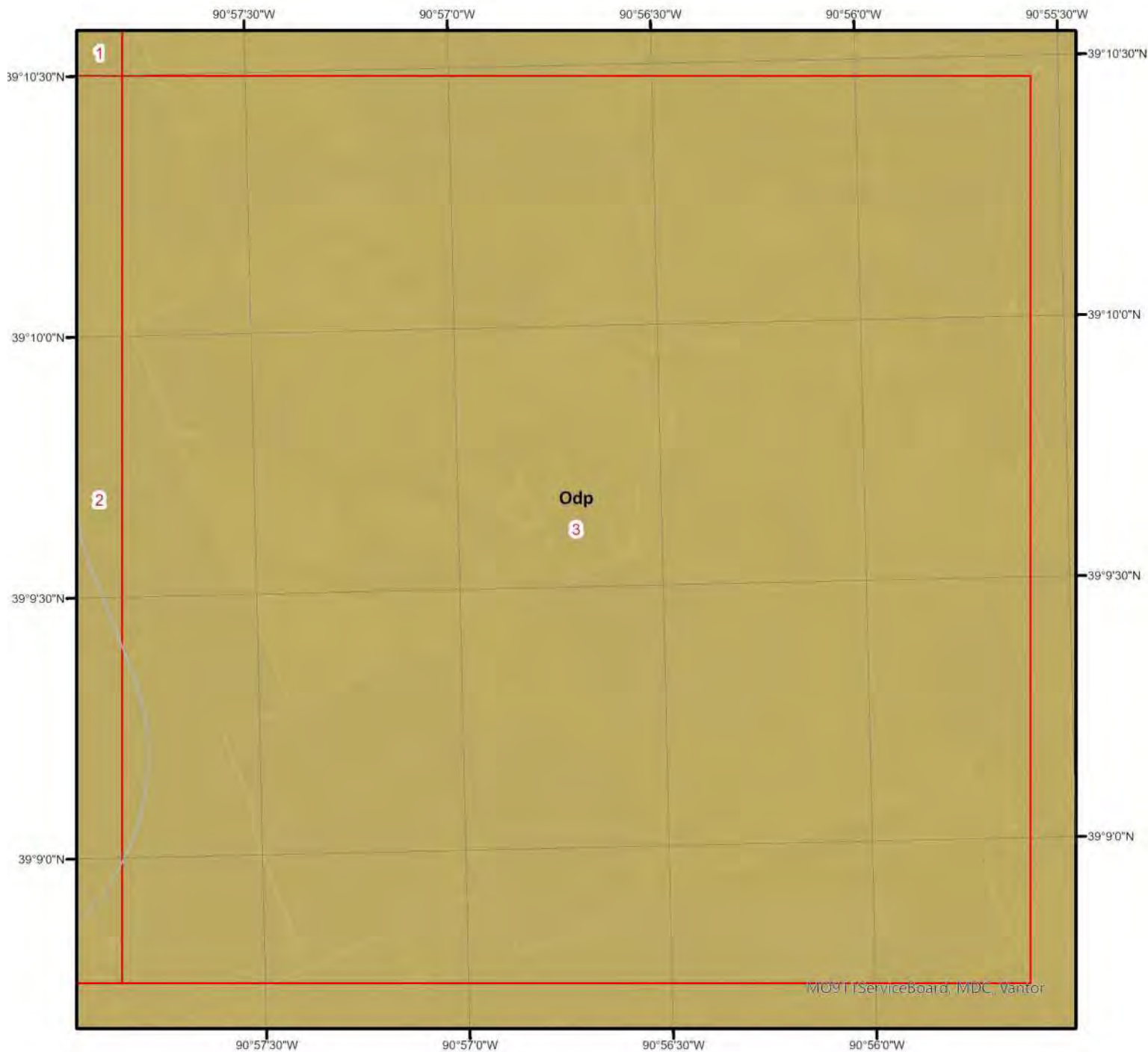


Geologic Units - Page 2

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

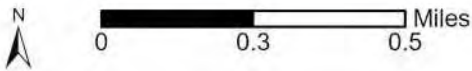


Geologic Information



Geologic Units - Page 3

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 Odp

Unit Name:	Decorah Group, Plattin Group
Unit Age:	Middle Ordovician-Mohawkian Series
Primary Rock Type:	Limestone
Secondary Rock Type:	
Unit Description:	Decorah Group, Plattin Group

Geologic Unit Ojd

Unit Name:	Joachim Dolomite, Dutchtown Formation
Unit Age:	Middle Ordovician-Mohawkian Series
Primary Rock Type:	Dolostone
Secondary Rock Type:	Limestone
Unit Description:	Joachim Dolomite, Dutchtown Formation

Geologic Unit Ospe

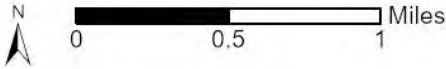
Unit Name:	St. Peter Sandstone, Everton Formation
Unit Age:	Middle Ordovician to Early Ordovician
Primary Rock Type:	Dolostone
Secondary Rock Type:	Sandstone
Unit Description:	St. Peter Sandstone, Everton Formation

Soil Information

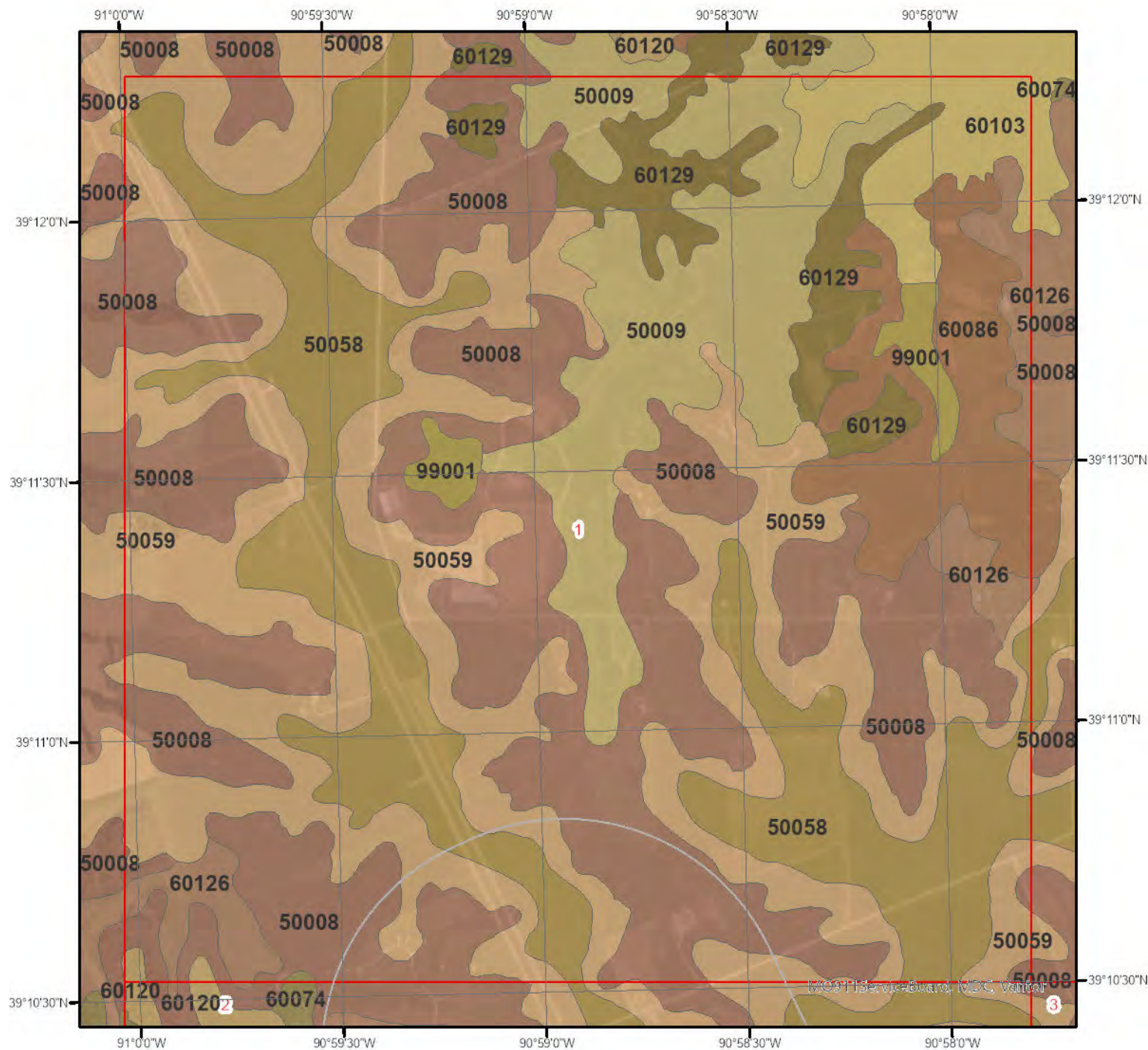


SSURGO Soils

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

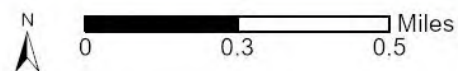


Soil Information

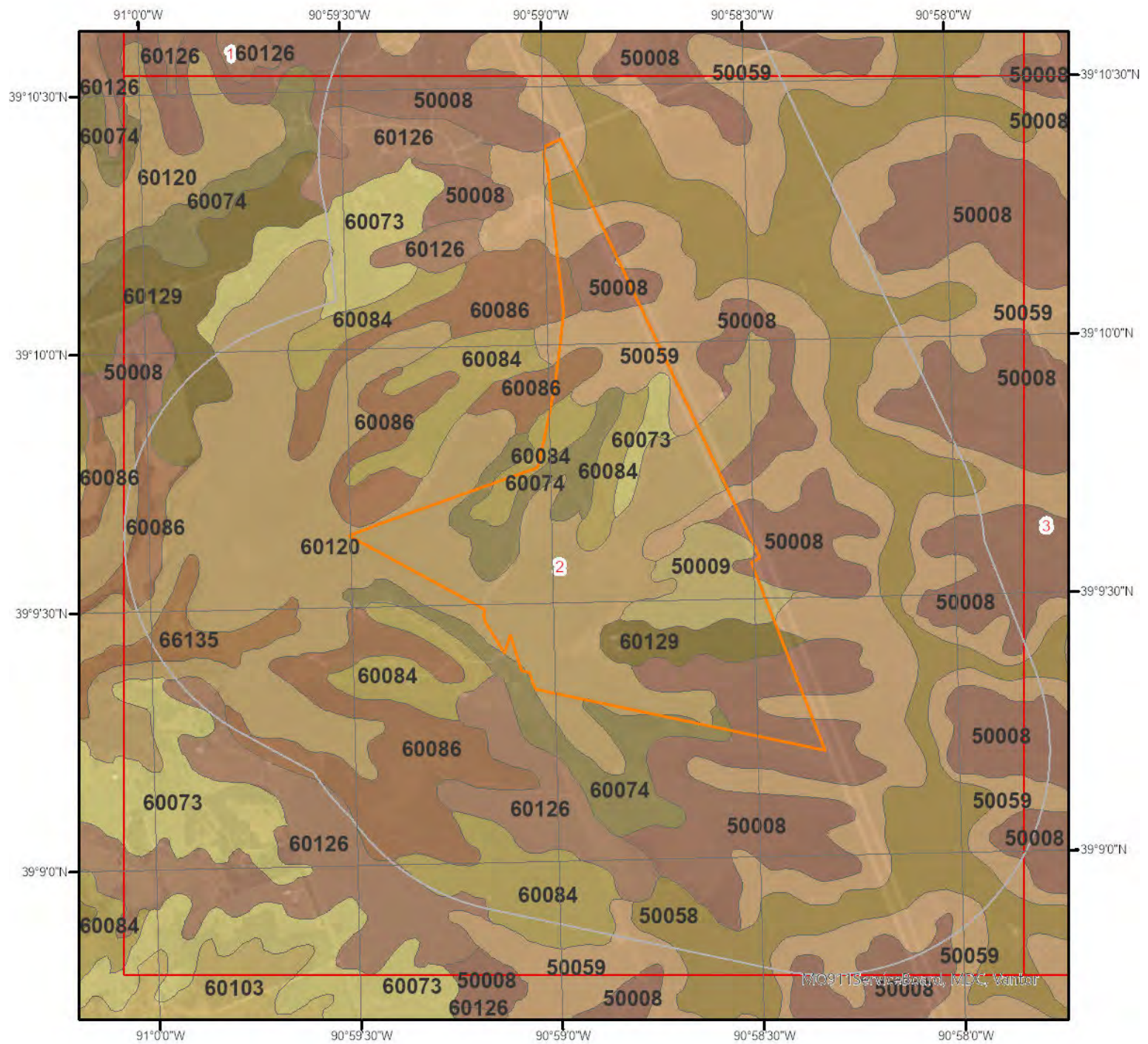


SSURGO Soils - Page 1

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



Soil Information

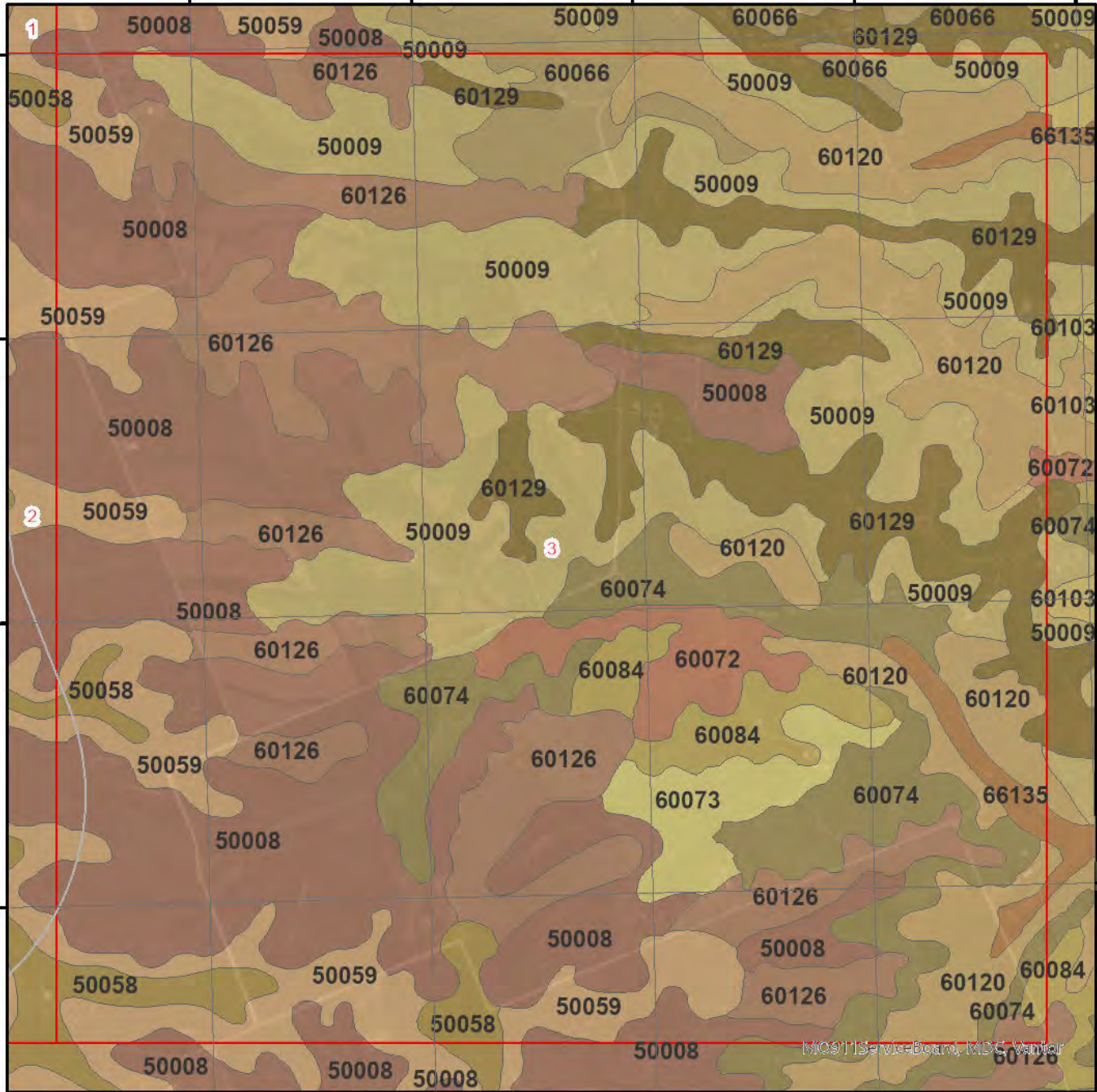


SSURGO Soils - Page 2

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

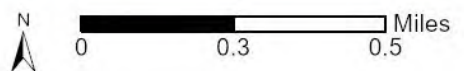


Soil Information



SSURGO Soils - Page 3

This 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 50008 (20.02%)

Map Unit Name:	Keswick silt loam, 5 to 9 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
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

Keswick(90%)	
horizon Ap(0cm to 18cm)	Silt loam
horizon 2Bt(18cm to 51cm)	Clay
horizon 2Btg(51cm to 200cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 50008 - Keswick silt loam, 5 to 9 percent slopes, eroded

Component: Keswick (90%)

The Keswick component makes up 90 percent of the map unit. Slopes are 5 to 9 percent. This component is on hillslopes, till plains. The parent material consists of pedis sediment over till. 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 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 not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F109XY007MO Till Upland Woodland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Leonard (5%)

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

Component: Lindley (5%)

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

Map Unit 50009 (1.55%)

Map Unit Name:	Keswick silt loam, 9 to 14 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
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

Keswick(85%)	
horizon A(0cm to 10cm)	Silt loam
horizon 2Bt(10cm to 135cm)	Clay loam
horizon 2BC(135cm to 200cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Soil Information

Map Unit: 50009 - Keswick silt loam, 9 to 14 percent slopes, eroded

Component: Keswick (85%)

The Keswick component makes up 85 percent of the map unit. Slopes are 9 to 14 percent. This component is on hillslopes, till plains. The parent material consists of pedis sediment over till. 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 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 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F109XY007MO Till Upland Woodland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Lindley (10%)

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

Component: Leonard (5%)

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

Map Unit 50058 (11.8%)

Map Unit Name:	Mexico silt loam, 0 to 2 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	23cm
Drainage Class - Dominant:	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

Mexico(90%)

horizon Ap(0cm to 23cm)	Silt loam
horizon Btg1(23cm to 38cm)	Silt loam
horizon Btg2(38cm to 86cm)	Clay
horizon Btg3(86cm to 107cm)	Silty clay loam
horizon 2Btg4(107cm to 200cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 50058 - Mexico silt loam, 0 to 2 percent slopes

Component: Mexico (90%)

The Mexico component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on ridges, till plains. The parent material consists of loess over pedis sediment. 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 low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the R113XY001MO Claypan Summit Prairie ecological site. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Putnam (10%)

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

Map Unit 50059 (20.21%)

Map Unit Name:	Mexico silt loam, 1 to 4 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	23cm
Drainage Class - Dominant:	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.

Soil Information

Major components are printed below

Mexico(85%)

horizon Ap(0cm to 18cm)	Silt loam
horizon Btg1(18cm to 38cm)	Silt loam
horizon Btg2(38cm to 86cm)	Clay
horizon Btg3(86cm to 107cm)	Silty clay loam
horizon 2Btg4(107cm to 200cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 50059 - Mexico silt loam, 1 to 4 percent slopes, eroded

Component: Mexico (85%)

The Mexico component makes up 85 percent of the map unit. Slopes are 1 to 4 percent. This component is on ridges, till plains. The parent material consists of loess over pedisegment. 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 low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the R113XY001MO Claypan Summit Prairie ecological site. Nonirrigated land capability classification is 3e. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Armstrong (7%)

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

Component: Putnam (5%)

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

Component: Leonard (3%)

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

Map Unit 60073 (2.04%)

Map Unit Name:	Bucklick silty clay loam, 5 to 9 percent slopes, eroded
Bedrock Depth - Min:	135cm
Watertable Depth - Annual Min:	null
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

Bucklick(90%)

horizon Ap(0cm to 18cm)	Silty clay loam
horizon Bt1(18cm to 79cm)	Silty clay
horizon 2Bt2(79cm to 114cm)	Silty clay
horizon 2Bt3/Cr(114cm to 135cm)	Bedrock
horizon 2R(135cm to 203cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60073 - Bucklick silty clay loam, 5 to 9 percent slopes, eroded

Component: Bucklick (90%)

The Bucklick component makes up 90 percent of the map unit. Slopes are 5 to 9 percent. This component is on hillslopes, hills. The parent material consists of loess over residuum weathered from dolomite. Depth to a root restrictive layer, bedrock, lithic, is 40 to 60 inches. The natural drainage class is 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 high. 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. This

Soil Information

component is in the F115BY005MO Loamy Upland Woodland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit 60074 (3.79%)

Map Unit Name:	Bucklick silty clay loam, 9 to 14 percent slopes, eroded
Bedrock Depth - Min:	135cm
Watertable Depth - Annual Min:	null
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

Bucklick(90%)	
horizon Ap(0cm to 18cm)	Silty clay loam
horizon Bt1(18cm to 79cm)	Silty clay
horizon 2Bt2(79cm to 114cm)	Silty clay
horizon 2Bt3/Cr(114cm to 135cm)	Bedrock
horizon 2R(135cm to 203cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60074 - Bucklick silty clay loam, 9 to 14 percent slopes, eroded

Component: Bucklick (90%)

The Bucklick component makes up 90 percent of the map unit. Slopes are 9 to 14 percent. This component is on hillslopes, hills. The parent material consists of loess over residuum weathered from dolomite. Depth to a root restrictive layer, bedrock, lithic, is 40 to 60 inches. The natural drainage class is 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 high. 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. This component is in the F115BY005MO Loamy Upland Woodland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit 60084 (6.99%)

Map Unit Name:	Crider silt loam, 5 to 9 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
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

Crider(85%)	
horizon Ap(0cm to 20cm)	Silt loam
horizon Bt1(20cm to 94cm)	Silty clay loam
horizon 2Bt2(94cm to 152cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60084 - Crider silt loam, 5 to 9 percent slopes, eroded

Component: Crider (85%)

The Crider component makes up 85 percent of the map unit. Slopes are 5 to 9 percent. This component is on hillslopes, hills. The parent material consists of loess over residuum weathered from dolomite. 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 low. Available water to a depth

Soil Information

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. This component is in the F115BY005MO Loamy Upland Woodland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit 60086 (8.9%)

Map Unit Name:	Crider silt loam, 9 to 14 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
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

Crider(85%)

horizon Ap(0cm to 28cm)	Silt loam
horizon Bt1(28cm to 94cm)	Silty clay loam
horizon 2Bt2(94cm to 152cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60086 - Crider silt loam, 9 to 14 percent slopes, eroded

Component: Crider (85%)

The Crider component makes up 85 percent of the map unit. Slopes are 9 to 14 percent. This component is on hillslopes, hills. The parent material consists of loess over residuum weathered from dolomite. 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 low. 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. This component is in the F115BY005MO Loamy Upland Woodland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit 60120 (17.53%)

Map Unit Name:	Goss-Gasconade-Brussels complex, 9 to 70 percent slopes, very stony
Bedrock Depth - Min:	33cm
Watertable Depth - Annual Min:	null
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

Goss(45%)

horizon A(0cm to 15cm)	Gravelly silt loam
horizon E(15cm to 48cm)	Extremely gravelly silt loam
horizon Bt1(48cm to 152cm)	Very gravelly silty clay loam
horizon 2Bt2(152cm to 203cm)	Cobbly clay

Brussels(26%)

horizon A(0cm to 13cm)	Very channery silty clay loam
horizon Bw1(13cm to 89cm)	Very flaggy silty clay
horizon Bw2(89cm to 152cm)	Extremely flaggy silty clay

Gasconade(24%)

horizon A(0cm to 25cm)	Very channery silty clay loam
horizon Bw(25cm to 33cm)	Channery silty clay
horizon R(33cm to 203cm)	Bedrock

Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60120 - Goss-Gasconade-Brussels complex, 9 to 70 percent slopes, very stony

Component: Goss (40%)

The Goss component makes up 40 percent of the map unit. Slopes are 9 to 70 percent. This component is on hillslopes, hills. The parent material consists of slope alluvium over residuum weathered from dolomite. 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 low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. 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. This component is in the F115CY013MO Chert Exposed Backslope Woodland, Chert Protected Backslope Forest ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Component: Brussels (26%)

The Brussels component makes up 26 percent of the map unit. Slopes are 9 to 70 percent. This component is on hillslopes, hills. The parent material consists of colluvium. 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 low. 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. This component is in the F115CY010MO Talus Footslope Forest ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Gasconade (24%)

The Gasconade component makes up 24 percent of the map unit. Slopes are 9 to 70 percent. This component is on hillslopes, hills. The parent material consists of residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 4 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. 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 7 percent. This component is in the R115BY009MO Shallow Limestone/dolomite Upland Glade/woodland ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map Unit 60126 (4.56%)

Map Unit Name:	Hatton silt loam, 2 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	76cm
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

Hatton(90%)

horizon Ap(0cm to 8cm)	Silt loam
horizon E(8cm to 15cm)	Silt
horizon Bt(15cm to 81cm)	Silty clay
horizon 2Btx(81cm to 122cm)	Silty clay loam
horizon 2Bt(122cm to 152cm)	Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60126 - Hatton silt loam, 2 to 5 percent slopes

Component: Hatton (85%)

The Hatton component makes up 85 percent of the map unit. Slopes are 2 to 5 percent. This component is on interfluvies, till plains. The parent material consists of loess over pedisidiment. Depth to a root restrictive layer, undefined, is 27 to 38 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. 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. A seasonal zone of

Soil Information

water saturation is at 30 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F115BY004MO Loess Upland Woodland ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map Unit 60129 (1.68%)

Map Unit Name:	Hatton silt loam, 5 to 9 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	76cm
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

Hatton(90%)

horizon Ap(0cm to 8cm)	Silt loam
horizon E(8cm to 15cm)	Silt
horizon Bt(15cm to 81cm)	Silty clay
horizon 2Btx(81cm to 122cm)	Silty clay loam
horizon 2Bt(122cm to 152cm)	Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 60129 - Hatton silt loam, 5 to 9 percent slopes

Component: Hatton (85%)

The Hatton component makes up 85 percent of the map unit. Slopes are 5 to 9 percent. This component is on ridges, till plains. The parent material consists of loess over pedisediment. Depth to a root restrictive layer, undefined, is 27 to 38 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. 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. A seasonal zone of water saturation is at 30 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F115BY004MO Loess Upland Woodland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit 66135 (0.92%)

Map Unit Name:	Dameron silt loam, 1 to 4 percent slopes, occasionally flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
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

Dameron(90%)

horizon Ap(0cm to 20cm)	Silt loam
horizon A(20cm to 71cm)	Silt loam
horizon 2C(71cm to 203cm)	Very gravelly silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 66135 - Dameron silt loam, 1 to 4 percent slopes, occasionally flooded

Component: Dameron (90%)

The Dameron component makes up 90 percent of the map unit. Slopes are 1 to 4 percent. This component is on drainageways, till plains. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class

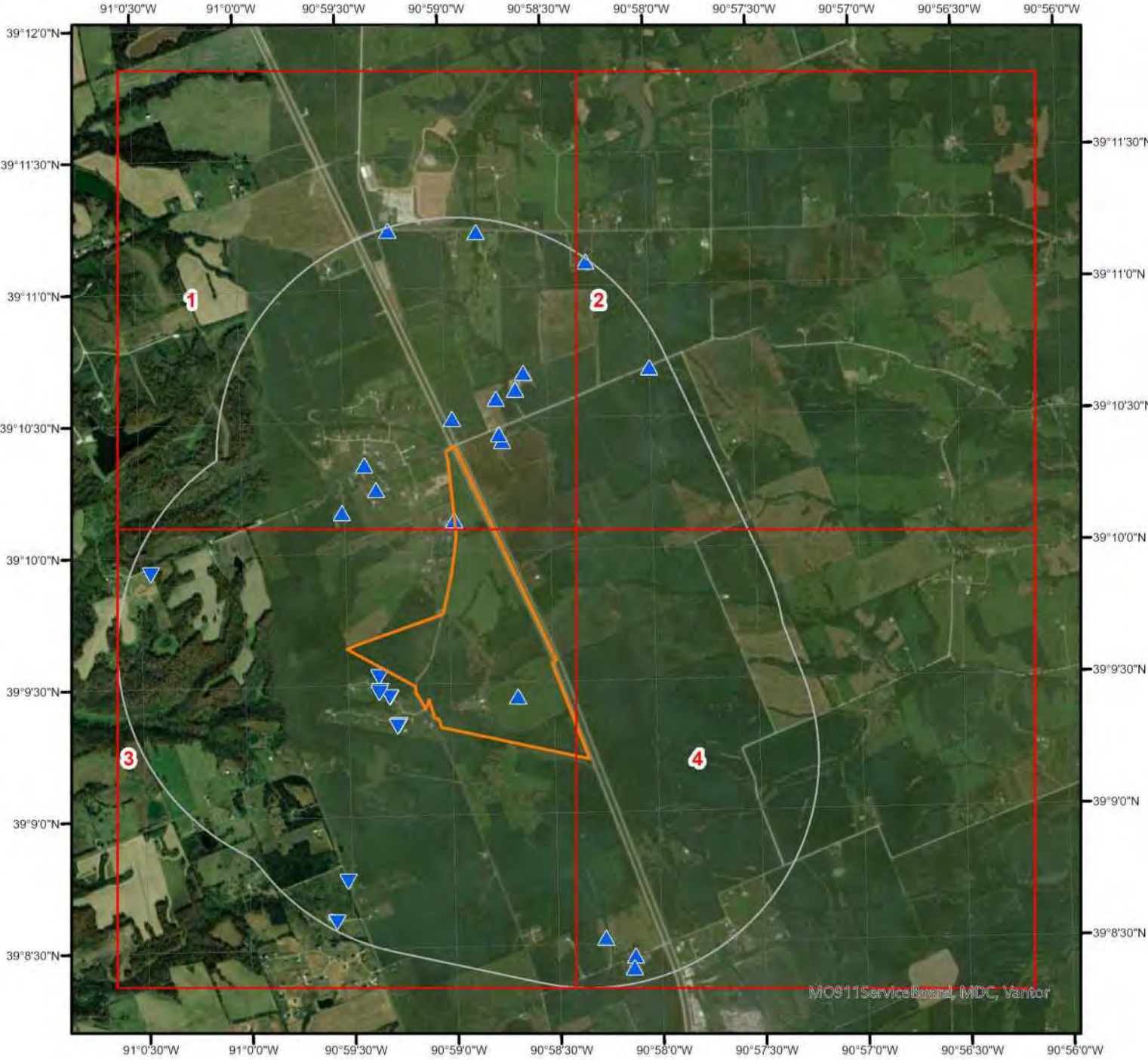
Soil Information

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 occasionally 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. This component is in the F115BY028MO Loamy/gravelly Upland Drainageway Forest ecological site. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

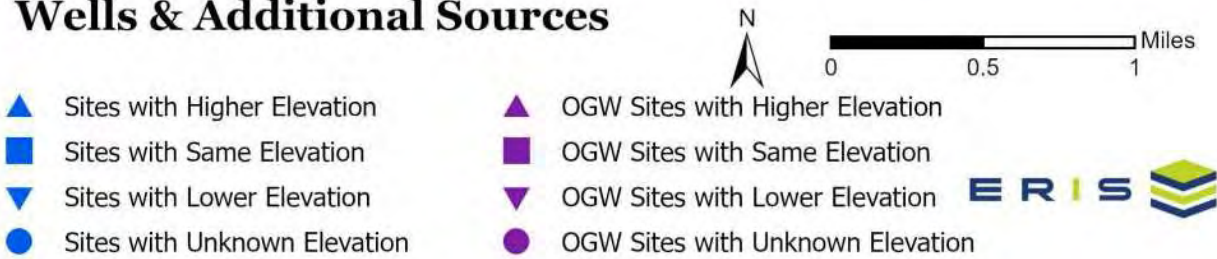
Component: Dockery (3%)

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

Wells and Additional Sources



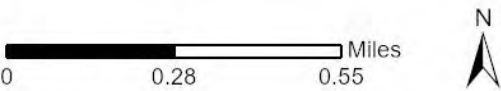
Wells & Additional Sources



Wells and Additional Sources



Wells & Additional Sources - Page 1



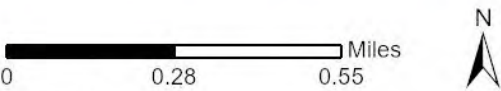
- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ● Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources



Wells & Additional Sources - Page 2

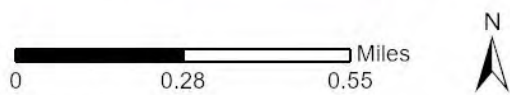


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|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ● Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |
- ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 3



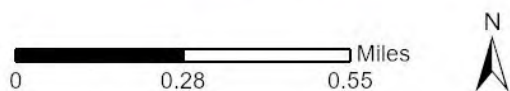
- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ● Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources



Wells & Additional Sources - Page 4



- | | |
|--------------------------------|------------------------------------|
| ▲ 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	PWS ID	Distance (ft)	Direction
4	MO6036370	230.98	WSW
28	MO6172340	5232.31	NNW

Safe Drinking Water Information System (SDWIS)

Map Key	PWS ID	Distance (ft)	Direction
4	MO6036370	230.98	WSW
28	MO6172340	5232.31	NNW

USGS National Water Information System

Map Key	Loc Identifier	Distance (ft)	Direction
12	USGS-391025090584501	1052.44	N

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Public Drinking Water Wells

Map Key	Unique ID	Distance (ft)	Direction
3		516.77	WSW
6		548.35	WSW
8		771.69	SW

Springs

Map Key	ID	Distance (ft)	Direction
No records found			

Water Wells

Map Key	Ref No	Distance (ft)	Direction
1	00531341	0.00	-
2	00278167	517.80	WSW
5	00278166	494.52	WSW
7	00452025	731.79	SW
9	00414060	9.86	NNW
10	01015374	1719.90	NW

Wells and Additional Sources Summary

11	01012842	2558.27	NW
13	00376570	1047.28	N
14	01015698	1895.66	NNW
15	00213514	663.88	N
16	00348214	1470.49	N
17	00113075	1928.48	N
18	01009909	4172.55	SSW
19	00011052	2329.27	N
20	00396404	5116.81	SSW
21	01010614	4123.59	SSE
22	00261956	4836.86	NNE
22	00330927	4836.86	NNE
22	00251787	4836.86	NNE
23	01008000	4816.05	WNW
24	00451233	4637.68	SSE
25	11257910	4897.87	SSE
26	00402401	5233.29	NNE
27	00225350	4987.09	N

Wells and Additional Sources Detail Report

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	WSW	0.04	230.98	720.77	PWSV

PWS ID: MO6036370
PWS Type Code: CWS
PWS Type Description: Community water system
Primary Source Code: GW
Primary Source Desc: Ground water
PWS Activity Code: I
PWS Activity Description: Inactive
PWS Deactivation Date: 02/27/2024
Zip Code: 63377-0000
Phone No:
Phone Ext No:
Admin Name: TRENTMAN, DANIEL
Alt Phone No:
Email Addr: drtren@hotmail.com
Fax No:
Cds ID:
Population Served Count: 47
Epa Region Desc: Region 7
Epa Region: 07
First Reported Date: 08/30/2023
Gw or Sw: Groundwater
Gw Sw Code: GW
Is Grant Eligible Ind: No
Outstanding Performer:
Is School or Daycare Ind: No
Is Source Water Protection:
Is Wholesaler Ind: No
Lt2 Schedule Cat:
Lt2 Schedule Cat Code:
Last Reported Date: 06/05/2024
Org Name: TRENTMAN, DANIEL
Outstanding Perform
Begin Date:
Owner Type: Private
Pop Cat 11: <=100
Pop Cat 2: <10,000
Pop Cat 3: <=3300
Pop Cat 4: <10K
Pop Cat 5: <=500
Primacy Agency: Missouri
Season Begin Date:

Wells and Additional Sources Detail Report

Season End Date:
Service Connections Count: 20
Submission Status Code: Y
Submissionyearquarter: 2025Q2
Primacy Type: State
Dbpr Schedule Category:
Submission Status: Reported and accepted
Reduced Monitoring Begin Date:
Reduced Monitoring End Date:
Reduced Rtr Monitoring:
Seasonal Startup System:
Source Protection Begin Date:
City Served:
County Served: Lincoln
Source Water Protection Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.99	5,232.31	817.77	PWSV

PWS ID: MO6172340
PWS Type Code: TNCWS
PWS Type Description: Transient non-community system
Primary Source Code: GW
Primary Source Desc: Ground water
PWS Activity Code: A
PWS Activity Description: Active
PWS Deactivation Date:
Zip Code: 63377-0000
Phone No: 573-485-2200
Phone Ext No:
Admin Name: FREYMUTH, STEPHANIE
Alt Phone No:
Email Addr: sfreymuth@oelocal513.com
Fax No:
Cds ID:
Population Served Count: 30
Epa Region Desc: Region 7
Epa Region: 07
First Reported Date: 07/15/1998
Gw or Sw: Groundwater
Gw Sw Code: GW
Is Grant Eligible Ind: Yes
Outstanding Performer:
Is School or Daycare Ind: Yes

Wells and Additional Sources Detail Report

Is Source Water Protection: No
Is Wholesaler Ind: No
Lt2 Schedule Cat:
Lt2 Schedule Cat Code:
Last Reported Date: 06/24/2025
Org Name: FREYMUTH, STEPHANIE
Outstanding Perform
Begin Date:
Owner Type: Private
Pop Cat 11: <=100
Pop Cat 2: <10,000
Pop Cat 3: <=3300
Pop Cat 4: <10K
Pop Cat 5: <=500
Primacy Agency: Missouri
Season Begin Date: 01-01
Season End Date: 12-31
Service Connections Count: 1
Submission Status Code: Y
Submissionyearquarter: 2025Q2
Primacy Type: State
Dbpr Schedule Category:
Submission Status: Reported and accepted
Reduced Monitoring Begin Date:
Reduced Monitoring End Date:
Reduced Rtr Monitoring:
Seasonal Startup System:
Source Protection Begin Date:
City Served:
County Served: Lincoln
Source Water Protection Code: N

Safe Drinking Water Information System (SDWIS)

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	WSW	0.04	230.98	720.77	SDWIS

PWS ID: MO6036370
PWS Type Code: CWS
PSW Type: Community water system
Primary Source Code: GW
Primary Source: Ground water
Pws Activity Code: I
Activity: Inactive
PWS Deactivation Dt: 02/27/2024

Wells and Additional Sources Detail Report

Phone No:
Phone Ext No:
Admin Name: TRENTMAN, DANIEL
Alt Phone No:
Email Addr: drtren@hotmail.com
Fax No:
Cds ID:
Population Served Count: 47
Epa Region Desc: Region 7
Epa Region: 07
First Reported Date: 08/30/2023
Gw or Sw: Groundwater
Is Grant Eligible Ind: No
Outstanding Performer:
Is School or Daycare Ind: No
Is Wholesaler Ind: No
Lt2 Schedule Cat:
Last Reported Date: 06/05/2024
Org Name: TRENTMAN, DANIEL
Outstanding Perform
Begin Date:
Owner Type: Private
Pop Cat 11: <=100
Pop Cat 2: <10,000
Pop Cat 3: <=3300
Pop Cat 4: <10K
Pop Cat 5: <=500
Primacy Agency: Missouri
Primacy Agency Code: MO
Season Begin Date:
Season End Date:
Service Connections
Count: 20
Submission Yr Qtr: 2025Q2
Primacy Type: State
Dbpr Schedule Category:
Submission Status: Reported and accepted
Reduced Monitoring
Begin:
Reduced Monitoring End
Date:
Reduced Rtr Monitoring:
Seasonal Startup System:
Source Protection Begin
Date:
City Served:
County Served: Lincoln

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.99	5,232.31	817.77	SDWIS

Wells and Additional Sources Detail Report

PWS ID: MO6172340
PWS Type Code: TNCWS
PSW Type: Transient non-community system
Primary Source Code: GW
Primary Source: Ground water
Pws Activity Code: A
Activity: Active
PWS Deactivation Dt:
Phone No: 573-485-2200
Phone Ext No:
Admin Name: FREYMUTH, STEPHANIE
Alt Phone No:
Email Addr: sfreymuth@oelocal513.com
Fax No:
Cds ID:
Population Served Count: 30
Epa Region Desc: Region 7
Epa Region: 07
First Reported Date: 07/15/1998
Gw or Sw: Groundwater
Is Grant Eligible Ind: Yes
Outstanding Performer:
Is School or Daycare Ind: Yes
Is Wholesaler Ind: No
Lt2 Schedule Cat:
Last Reported Date: 06/24/2025
Org Name: FREYMUTH, STEPHANIE
Outstanding Perform
Begin Date:
Owner Type: Private
Pop Cat 11: <=100
Pop Cat 2: <10,000
Pop Cat 3: <=3300
Pop Cat 4: <10K
Pop Cat 5: <=500
Primacy Agency: Missouri
Primacy Agency Code: MO
Season Begin Date: 01-01
Season End Date: 12-31
Service Connections
Count: 1
Submission Yr Qtr: 2025Q2
Primacy Type: State
Dbpr Schedule Category:
Submission Status: Reported and accepted
Reduced Monitoring
Begin:

Wells and Additional Sources Detail Report

Reduced Monitoring End
Date:
Reduced Rtr Monitoring:
Seasonal Startup System:
Source Protection Begin
Date:
City Served:
County Served: Lincoln

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	N	0.20	1,052.44	828.71	FED USGS

Loc Identifier:	USGS-391025090584501	Well Depth:	307.0
Date Drilled:		Well Depth Unit:	ft
Latitude:	39.1736578015061	Well Hole Depth:	
Longitude:	-90.9787472926763	Well Hole Dpth Unt:	
Loc Horz Coord Std:	NAD83	Loc Country Name:	United States of America
Loc Latitude Stnd:	39.1736578015061	Loc HUC Code:	071100041004
Loc Longitude Stnd:	-90.9787472926763	Loc Aquifer Code:	364STPR
Loc Tribl Land Ind:		Loc Aquifer Conte:	
Loc Tribal Land:		Loc Aquifer Desc:	
Location Welltype:		Alt Loc Identif A:	
Alt Loc Identifier:		Alt Loc Identif B:	
Alt Loc Identif 1:		Alt Loc Identif C:	
Alt Loc Identifi 2:			
Site Type:	Well		
Formation Type:			
Reporting Agency:	U.S. Geological Survey		
Station Name:	T51N R01W 23ACC1		

Public Drinking Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.10	516.77	751.52	PWSW

Well No:	2	Out Case Dep:	
Well ID:	20384	Out Case Size:	
Unique ID:		Pump Capacity:	20
Log ID:		Pump Depth:	
WWIMS ID:		Pump Manuf:	
PWSS ID:		Pump Type:	
PWSS ID Ext:		Pump Com:	
IPWS:	MO6036370	Pump Test:	
IPWS Ext:		Pump Test Da:	
PWIMS ID:		Scrn Length:	
Status:	Active	Scrn Size:	
Facility Type:	Subdivision	Stand by Power:	

Wells and Additional Sources Detail Report

Fed Type: MDNR No: MDNR Reg: Drill Date: -9999 Aban: Plug: Material: GWUDISW: Bottom Seal: Case Depth: Case Height: Case Size: Case Type: Meter: Chlor: Draw Down: Entry: Filter: FIPS: From CD: From TD: Head: Nitrate: D Fed Prim Src Cd: GW D Population Count: 47 D Pws Fed Type Cd: C D Ttl Stor Cap Msr: 476 Local Name: Well #2 Aquifer: FM Source:	Stappr: Static Lev: -9999 Surf Drain: Top Case Elv: Top Seal: Tot Depth: 507 GRT Mat: GRT Seal: GW Provinc: Rads: Rcnstrct: IOC: VOC: Yield: 50 Verloc: Grnd Elev: -9999 Method: Accuracy: Location Status: Last Update: County: Lincoln Y: 39.15749999975188 X: -90.98833000023204 Name: MILLCREEK ESTATES No: MO6036370 Oper Category Cd: 1
---	--

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	WSW	0.10	548.35	753.13	PWSW

Well No: 1 Well ID: 20383 Unique ID: Log ID: WWIMS ID: PWSS ID: PWSS ID Ext: IPWS: MO6036370 IPWS Ext: PWIMS ID: Status: Active Facility Type: Subdivision	Out Case Dep: Out Case Size: Pump Capacity: 20 Pump Depth: Pump Manuf: Pump Type: Pump Com: Pump Test: Pump Test Da: Scrn Length: Scrn Size: Stand by Power:
---	---

Wells and Additional Sources Detail Report

Fed Type: MDNR No: MDNR Reg: Drill Date: -9999 Aban: Plug: Material: GWUDISW: Bottom Seal: Case Depth: Case Height: Case Size: Case Type: Meter: Chlor: Draw Down: Entry: Filter: FIPS: From CD: From TD: Head: Nitrate: D Fed Prim Src Cd: GW D Population Count: 47 D Pws Fed Type Cd: C D Ttl Stor Cap Msr: 476 Local Name: Well #1 Aquifer: FM Source:	Stappr: Static Lev: -9999 Surf Drain: Top Case Elv: Top Seal: Tot Depth: -9999 GRT Mat: GRT Seal: GW Provinc: Rads: Rcnstrct: IOC: VOC: Yield: 50 Verloc: Grnd Elev: -9999 Method: Accuracy: Location Status: Last Update: County: Lincoln Y: 39.15777000005665 X: -90.98916000054099 Name: MILLCREEK ESTATES No: MO6036370 Oper Category Cd: 1
---	--

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	SW	0.15	771.69	770.15	PWSW

Well No: 3 Well ID: 20385 Unique ID: Log ID: WWIMS ID: PWSS ID: PWSS ID Ext: IPWS: MO6036370 IPWS Ext: PWIMS ID: Status: Active Facility Type: Subdivision	Out Case Dep: Out Case Size: Pump Capacity: -9999 Pump Depth: Pump Manuf: Pump Type: Pump Com: Pump Test: Pump Test Da: Scrn Length: Scrn Size: Stand by Power:
---	--

Wells and Additional Sources Detail Report

Fed Type: MDNR No: MDNR Reg: Drill Date: -9999 Aban: Plug: Material: GWUDISW: Bottom Seal: Case Depth: Case Height: Case Size: Case Type: Meter: Chlor: Draw Down: Entry: Filter: FIPS: From CD: From TD: Head: Nitrate: D Fed Prim Src Cd: GW D Population Count: 47 D Pws Fed Type Cd: C D Ttl Stor Cap Msr: 476 Local Name: Well #3 Aquifer: FM Source:	Stappr: Static Lev: -9999 Surf Drain: Top Case Elv: Top Seal: Tot Depth: 773 GRT Mat: GRT Seal: GW Provinc: Rads: Rcnstrct: IOC: VOC: Yield: 60 Verloc: Grnd Elev: -9999 Method: Accuracy: Location Status: Last Update: County: Lincoln Y: 39.155629999986864 X: -90.987719999988773 Name: MILLCREEK ESTATES No: MO6036370 Oper Category Cd: 1
---	--

Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	-	0.00	0.00	797.65	WATER WELLS

Well ID: 134607 Well Inst: 271192 Well Name: Well Type: Domestic Well Use: FID: 112894 Ref No: 00531341 Cert No: A215363 Date Compl: 2017/08/30 00:00:00+00 Well Stat: Active Well Yield: 60	Subdiv 1: Subdiv 2: Subdiv 3: Twn No: Twn Dir: Rng No: Rng Dir: Sctn No: Cnty Fips: Drill Area: Elev:
--	---

Wells and Additional Sources Detail Report

Site Add1:		Total Dpth:	420
Site Add2:		Casing Len:	240
Site City:		SWL:	150
Site Name:	CONVERSION	Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1574778979169	Liner Use:	
Y:	-90.9779117270805	Added By:	
Owner Add1:	402 WOODS ROAD	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	DARRYL	Cont Prmt:	
Owner Ln:	VEHIGE	Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63377	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	6		
Form 1:	CLY		
From 2:	6		
To 2:	15		
Form 2:	WHT RX		
From 3:	15		
To 3:	16		
Form 3:	SH		
From 4:	16		
To 4:	85		
Form 4:	LM		
From 5:	85		
To 5:	220		
Form 5:	SS		
From 6:	220		
To 6:	230		
Form 6:	SH		
From 7:	230		
To 7:	420		
Form 7:	LM		
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		
To 10:	0		
Form 10:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	WSW	0.10	517.80	753.24	WATER WELLS

Well ID:	100084	Subdiv 1:	
Well Inst:	134867	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Multi-Family	Twtn No:	
Well Use:		Twtn Dir:	
FID:	128264	Rng No:	
Ref No:	00278167	Rng Dir:	
Cert No:	A111893	Sctn No:	
Date Compl:	2002/02/13 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	50	Elev:	
Site Add1:		Total Dpth:	507
Site Add2:		Casing Len:	0
Site City:		SWL:	340
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	105
Site Zip:		Liner Mat:	Steel
X:	39.1574778979449	Liner Use:	
Y:	-90.9882877068024	Added By:	
Owner Add1:	755 MARY JO RD	Business:	MILL CREEK ESTATES
Owner Add2:		Cont Fn:	EDWARD
Owner City:	SILEX	Cont Ln:	MUDD
Owner Fn:	C/O BUTCH	Cont Prmt:	001037
Owner Ln:	MENNE	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	15		
Form 1:	CLY		
From 2:	15		
To 2:	65		
Form 2:	LS		
From 3:	65		
To 3:	80		
Form 3:	GRY LS,SH		
From 4:	80		
To 4:	210		
Form 4:	SS		
From 5:	210		
To 5:	220		

Wells and Additional Sources Detail Report

Form 5:	SH
From 6:	220
To 6:	240
Form 6:	SS
From 7:	240
To 7:	466
Form 7:	GRY LS;WT LS 302-425
From 8:	466
To 8:	507
Form 8:	WT LS
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	WSW	0.09	494.52	753.90	WATER WELLS

Well ID:	240560	Subdiv 1:	
Well Inst:	134866	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Multi-Family	TwN No:	
Well Use:		TwN Dir:	
FID:	135771	Rng No:	
Ref No:	00278166	Rng Dir:	
Cert No:	A111894	Sctn No:	
Date Compl:	2002/02/15 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	50	Elev:	
Site Add1:		Total Dpth:	507
Site Add2:		Casing Len:	0
Site City:		SWL:	340
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	105
Site Zip:		Liner Mat:	Steel
X:	39.1579051433276	Liner Use:	
Y:	-90.9890811630964	Added By:	
Owner Add1:	755 MARY JO RD	Business:	MILL CREEK ESTATES
Owner Add2:		Cont Fn:	EDWARD
Owner City:	SILEX	Cont Ln:	MUDD
Owner Fn:	C/O BUTCH	Cont Prmt:	001037
Owner Ln:	MENNE	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY

Wells and Additional Sources Detail Report

Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	25		
Form 1:	CLY<15;WEATH LS		
From 2:	25		
To 2:	35		
Form 2:	GRY LS		
From 3:	35		
To 3:	75		
Form 3:	WT LS,LAYERED SH		
From 4:	75		
To 4:	220		
Form 4:	SS<210;SH		
From 5:	220		
To 5:	240		
Form 5:	SS		
From 6:	240		
To 6:	261		
Form 6:	GRY LS		
From 7:	261		
To 7:	343		
Form 7:	WT LS		
From 8:	343		
To 8:	384		
Form 8:	GRY LS		
From 9:	384		
To 9:	507		
Form 9:	WT LS		
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	SW	0.14	731.79	767.35	WATER WELLS

Well ID:	27356	Subdiv 1:	
Well Inst:	219887	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Multi-Family	Twtn No:	
Well Use:		Twtn Dir:	
FID:	155774	Rng No:	
Ref No:	00452025	Rng Dir:	
Cert No:	A222773	Sctn No:	
Date Compl:	2009/09/18 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	

Wells and Additional Sources Detail Report

Well Yield:	60	Elev:	
Site Add1:	MILL CREEK CHURCH ROAD	Total Dpth:	773
Site Add2:		Casing Len:	0
Site City:	SILEX	SWL:	180
Site Name:		Casing Mat:	
Site St:	MO	Liner Len:	126
Site Zip:		Liner Mat:	Steel
X:	39.1557078778703	Liner Use:	
Y:	-90.9876163196829	Added By:	
Owner Add1:	755 MARY JO ROAD	Business:	MILL CREEK ESTATES
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	BUTCH	Cont Prmt:	
Owner Ln:	MENNE	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	50		
Form 1:	CLY		
From 2:	50		
To 2:	65		
Form 2:	GRY LM		
From 3:	65		
To 3:	70		
Form 3:	MD SM		
From 4:	70		
To 4:	100		
Form 4:	GRY LM		
From 5:	100		
To 5:	310		
Form 5:	SS		
From 6:	310		
To 6:	320		
Form 6:	SH		
From 7:	320		
To 7:	390		
Form 7:	GRY LM		
From 8:	390		
To 8:	400		
Form 8:	SH		
From 9:	400		
To 9:	410		
Form 9:	GRY LM		
From 10:	410		
To 10:	415		

Wells and Additional Sources Detail Report

Form 10: SH

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	NNW	0.00	9.86	811.29	WATER WELLS

Well ID:	128375	Subdiv 1:	
Well Inst:	204960	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	13327	Rng No:	
Ref No:	00414060	Rng Dir:	
Cert No:	A164545	Sctn No:	
Date Compl:	2008/08/20 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	18	Elev:	
Site Add1:		Total Dpth:	380
Site Add2:		Casing Len:	0
Site City:		SWL:	220
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	100
Site Zip:		Liner Mat:	Plastic
X:	39.168708368722	Liner Use:	
Y:	-90.9827945419103	Added By:	
Owner Add1:	905 MILL CREEK CHURCH RD	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	BRIAN	Cont Prmt:	
Owner Ln:	BEAGLE	Depth Gw:	300
Owner Mi:		Driller Fn:	MARK
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63377	Drill Prmt:	001121
Well No:			
From 1:	0		
To 1:	5		
Form 1:	CLY		
From 2:	5		
To 2:	40		
Form 2:	LM		
From 3:	40		
To 3:	50		
Form 3:	RD		
From 4:	50		
To 4:	180		
Form 4:	LM		
From 5:	180		

Wells and Additional Sources Detail Report

To 5:	300
Form 5:	SS
From 6:	300
To 6:	307
Form 6:	SH
From 7:	307
To 7:	380
Form 7:	LM
From 8:	0
To 8:	0
Form 8:	
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NW	0.33	1,719.90	806.33	WATER WELLS

Well ID:	108858	Subdiv 1:	
Well Inst:	298550	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	1926	Rng No:	
Ref No:	01015374	Rng Dir:	
Cert No:	A236783	Sctn No:	
Date Compl:	2021/12/17 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	60	Elev:	
Site Add1:	130 WHITE WILDLIFE RD.	Total Dpth:	440
Site Add2:		Casing Len:	260
Site City:	SILEX	SWL:	180
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1707225285096	Liner Use:	
Y:	-90.9890811644801	Added By:	
Owner Add1:	130 WHITE WILDLIFE RD.	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	CHRISTINA	Cont Prmt:	001120
Owner Ln:	ROTH	Depth Gw:	0
Owner Mi:		Driller Fn:	ALAN

Wells and Additional Sources Detail Report

Owner St:	MO	Driller Ln:	BURGESS
Owner Zip:	63377	Drill Prmt:	003163
Well No:			
From 1:	0		
To 1:	10		
Form 1:	CLAY		
From 2:	10		
To 2:	15		
Form 2:	WEATHERED ROCK		
From 3:	15		
To 3:	40		
Form 3:	LIME		
From 4:	40		
To 4:	70		
Form 4:	GRAY LIME		
From 5:	70		
To 5:	110		
Form 5:	LIME		
From 6:	110		
To 6:	245		
Form 6:	SAND STONE		
From 7:	245		
To 7:	250		
Form 7:	SHALE		
From 8:	250		
To 8:	440		
Form 8:	LIME		
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	NW	0.48	2,558.27	791.18	WATER WELLS

Well ID:	107157	Subdiv 1:	
Well Inst:	296882	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	141134	Rng No:	
Ref No:	01012842	Rng Dir:	
Cert No:	A230007	Sctn No:	
Date Compl:	2021/05/24 00:00:00+00	Cnty Fips:	

Wells and Additional Sources Detail Report

Well Stat:	Active	Drill Area:	
Well Yield:	60	Elev:	
Site Add1:	170 WHITE WILDLIFE	Total Dpth:	440
Site Add2:		Casing Len:	273
Site City:	SILEX	SWL:	150
Site Name:		Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.169318720142	Liner Use:	
Y:	-90.9918887821068	Added By:	
Owner Add1:	232 WHITE WILDLIFE RD.	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	ETHAN	Cont Prmt:	001120
Owner Ln:	STRUNK	Depth Gw:	0
Owner Mi:		Driller Fn:	BRAD
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63377	Drill Prmt:	006342
Well No:			
From 1:	0		
To 1:	15		
Form 1:	CLAY/FLINT		
From 2:	15		
To 2:	45		
Form 2:	GRAY LIME		
From 3:	45		
To 3:	80		
Form 3:	SHALE		
From 4:	80		
To 4:	110		
Form 4:	SHALE/TAN		
From 5:	110		
To 5:	240		
Form 5:	SAND		
From 6:	240		
To 6:	440		
Form 6:	TAN/GRAY LIME		
From 7:	0		
To 7:	0		
Form 7:			
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		

Wells and Additional Sources Detail Report

To 10: 0
Form 10:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	N	0.20	1,047.28	830.48	WATER WELLS

Well ID:	251099	Subdiv 1:	
Well Inst:	185850	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	2840	Rng No:	
Ref No:	00376570	Rng Dir:	
Cert No:	A171683	Sctn No:	
Date Compl:	2010/01/12 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	30	Elev:	
Site Add1:	TICK RIDGE RD	Total Dpth:	440
Site Add2:		Casing Len:	320
Site City:	SILEX	SWL:	180
Site Name:	FINLEY FARM	Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.174079463932	Liner Use:	
Y:	-90.9790103616926	Added By:	
Owner Add1:	4414 NORTH HWY 61	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	FRANKIE	Cont Prmt:	
Owner Ln:	TEASLEY	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	30		
Form 1:	CLY		
From 2:	30		
To 2:	70		
Form 2:	WT LM		
From 3:	70		
To 3:	155		
Form 3:	GRY LM		
From 4:	155		
To 4:	290		
Form 4:	SND		

Wells and Additional Sources Detail Report

From 5:	290
To 5:	295
Form 5:	SH
From 6:	295
To 6:	440
Form 6:	GRY LM
From 7:	0
To 7:	0
Form 7:	
From 8:	0
To 8:	0
Form 8:	
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	NNW	0.36	1,895.66	800.86	WATER WELLS

Well ID:	108992	Subdiv 1:	
Well Inst:	298731	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	78453	Rng No:	
Ref No:	01015698	Rng Dir:	
Cert No:	A238613	Sctn No:	
Date Compl:	2021/12/21 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	40	Elev:	
Site Add1:	120 WHITE WILDLIFE RD.	Total Dpth:	460
Site Add2:		Casing Len:	280
Site City:	SILEX	SWL:	180
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1723094427321	Liner Use:	
Y:	-90.9899966929239	Added By:	
Owner Add1:	120 WHITE WILDLIFE RD.	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	LINCOLN	Cont Prmt:	001120
Owner Ln:	STEINER	Depth Gw:	0

Wells and Additional Sources Detail Report

Owner Mi:		Driller Fn:	ALAN
Owner St:	MO	Driller Ln:	BURGESS
Owner Zip:	63377	Drill Prmt:	003163
Well No:			
From 1:	0		
To 1:	10		
Form 1:	CLAY		
From 2:	10		
To 2:	15		
Form 2:	WEATHERED ROCK		
From 3:	15		
To 3:	120		
Form 3:	LIME		
From 4:	120		
To 4:	255		
Form 4:	SAND STONE		
From 5:	255		
To 5:	260		
Form 5:	SHALE		
From 6:	260		
To 6:	460		
Form 6:	LIME		
From 7:	0		
To 7:	0		
Form 7:			
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	N	0.13	663.88	832.01	WATER WELLS

Well ID:	176892	Subdiv 1:	
Well Inst:	103371	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	32227	Rng No:	
Ref No:	00213514	Rng Dir:	
Cert No:	A073188	Sctn No:	

Wells and Additional Sources Detail Report

Date Compl:	1998/10/12 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	25	Elev:	
Site Add1:		Total Dpth:	450
Site Add2:		Casing Len:	84
Site City:		SWL:	250
Site Name:	CONVERSION	Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1751170610827	Liner Use:	
Y:	-90.9827945425329	Added By:	
Owner Add1:	889 MILLCREEK CHURCH RD	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	JIM	Cont Prmt:	001120
Owner Ln:	FUHRMANN, SR.	Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63377	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	7		
Form 1:	DIRT		
From 2:	7		
To 2:	252		
Form 2:	LS<120;SS		
From 3:	252		
To 3:	258		
Form 3:	SHALEY		
From 4:	258		
To 4:	450		
Form 4:	LS		
From 5:	0		
To 5:	0		
Form 5:			
From 6:	0		
To 6:	0		
Form 6:			
From 7:	0		
To 7:	0		
Form 7:			
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			

Wells and Additional Sources Detail Report

From 10: 0
 To 10: 0
 Form 10:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	N	0.28	1,470.49	815.68	WATER WELLS

Well ID:	8853	Subdiv 1:	
Well Inst:	172719	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	84864	Rng No:	
Ref No:	00348214	Rng Dir:	
Cert No:	A134329	Sctn No:	
Date Compl:	2005/05/15 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	16	Elev:	
Site Add1:	MILL CREEK RD SILEX	Total Dpth:	404
Site Add2:		Casing Len:	0
Site City:		SWL:	150
Site Name:		Casing Mat:	
Site St:	MO	Liner Len:	80
Site Zip:		Liner Mat:	Plastic
X:	39.1763377646738	Liner Use:	
Y:	-90.9791934667584	Added By:	
Owner Add1:	2431 EAST 47	Business:	
Owner Add2:		Cont Fn:	EDWARD
Owner City:	WINFIELD	Cont Ln:	MUDD
Owner Fn:	DARREL	Cont Prmt:	001037
Owner Ln:	HENRY	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63389	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	18		
Form 1:	CLY		
From 2:	18		
To 2:	35		
Form 2:	WTHRD LM		
From 3:	35		
To 3:	90		
Form 3:	WHT LM		
From 4:	90		
To 4:	98		

Wells and Additional Sources Detail Report

Form 4:	WTHRD LM
From 5:	98
To 5:	110
Form 5:	WHT LM
From 6:	110
To 6:	116
Form 6:	BRN SH WTRH
From 7:	116
To 7:	145
Form 7:	GRY LM
From 8:	145
To 8:	280
Form 8:	SND
From 9:	280
To 9:	290
Form 9:	SH
From 10:	290
To 10:	363
Form 10:	GRY LM

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	N	0.37	1,928.48	815.16	WATER WELLS

Well ID:	123512	Subdiv 1:	
Well Inst:	55938	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	Twtn No:	
Well Use:		Twtn Dir:	
FID:	254241	Rng No:	
Ref No:	00113075	Rng Dir:	
Cert No:	A147168	Sctn No:	
Date Compl:	2006/10/17 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	30	Elev:	
Site Add1:		Total Dpth:	405
Site Add2:		Casing Len:	0
Site City:		SWL:	180
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	80
Site Zip:		Liner Mat:	Steel
X:	39.1768870812738	Liner Use:	
Y:	-90.977606552755	Added By:	
Owner Add1:	123 TRICKRIDGE RD	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	SAMUEL	Cont Prmt:	

Wells and Additional Sources Detail Report

Owner Ln:	DURBIN	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	15		
Form 1:	CLY		
From 2:	15		
To 2:	25		
Form 2:	MUD		
From 3:	25		
To 3:	40		
Form 3:	WHITE LM		
From 4:	40		
To 4:	155		
Form 4:	GRY LM		
From 5:	155		
To 5:	220		
Form 5:	SAND		
From 6:	220		
To 6:	225		
Form 6:	SH		
From 7:	225		
To 7:	300		
Form 7:	GRY LM		
From 8:	300		
To 8:	380		
Form 8:	WHITE LM		
From 9:	380		
To 9:	405		
Form 9:	GRY LM		
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	SSW	0.79	4,172.55	755.18	WATER WELLS

Well ID:	195650	Subdiv 1:	
Well Inst:	295103	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	120625	Rng No:	
Ref No:	01009909	Rng Dir:	

Wells and Additional Sources Detail Report

Cert No:	A228073	Sctn No:	
Date Compl:	2020/07/08 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	25	Elev:	
Site Add1:	303 HWY RA	Total Dpth:	400
Site Add2:		Casing Len:	300
Site City:	SILEX	SWL:	160
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1458812152143	Liner Use:	
Y:	-90.9920108510261	Added By:	
Owner Add1:	303 HWY RA	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	BILL	Cont Prmt:	001120
Owner Ln:	GROTHAUS	Depth Gw:	0
Owner Mi:		Driller Fn:	ALAN
Owner St:	MO	Driller Ln:	BURGESS
Owner Zip:	63377	Drill Prmt:	003163
Well No:			
From 1:	0		
To 1:	10		
Form 1:	CLAY		
From 2:	10		
To 2:	12		
Form 2:	WEAATHERED ROCK		
From 3:	12		
To 3:	60		
Form 3:	LIME		
From 4:	60		
To 4:	70		
Form 4:	GRAY SHALE		
From 5:	70		
To 5:	105		
Form 5:	LIME		
From 6:	105		
To 6:	110		
Form 6:	SHALE		
From 7:	110		
To 7:	150		
Form 7:	LIME		
From 8:	150		
To 8:	285		
Form 8:	SANDSTONE		
From 9:	285		
To 9:	292		

Wells and Additional Sources Detail Report

Form 9: SHALE
 From 10: 292
 To 10: 400
 Form 10: LIME

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	N	0.44	2,329.27	816.62	WATER WELLS

Well ID:	152847	Subdiv 1:	
Well Inst:	13295	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	213366	Rng No:	
Ref No:	00011052	Rng Dir:	
Cert No:	A008313	Sctn No:	
Date Compl:	1988/05/01 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	60	Elev:	
Site Add1:		Total Dpth:	360
Site Add2:		Casing Len:	105
Site City:		SWL:	80
Site Name:	CONVERSION	Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1779246791072	Liner Use:	
Y:	-90.9769351655969	Added By:	
Owner Add1:	RT 1	Business:	
Owner Add2:		Cont Fn:	MARK
Owner City:	OLD MONROE	Cont Ln:	LAVY
Owner Fn:	DAN	Cont Prmt:	001121
Owner Ln:	RANKIN	Depth Gw:	0
Owner Mi:		Driller Fn:	MARK
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63369	Drill Prmt:	001121
Well No:			
From 1:	0		
To 1:	15		
Form 1:	DIRT0-7,WTHRDLS		
From 2:	15		
To 2:	155		
Form 2:	GRYSH,WHTLS45-155		
From 3:	155		
To 3:	170		
Form 3:	BRN RX 360 60GPM		
From 4:	170		

Wells and Additional Sources Detail Report

To 4:	340
Form 4:	LS 300&200 50&35GPM
From 5:	340
To 5:	360
Form 5:	SS 160 15GPM
From 6:	0
To 6:	0
Form 6:	
From 7:	0
To 7:	0
Form 7:	
From 8:	0
To 8:	0
Form 8:	
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSW	0.97	5,116.81	757.62	WATER WELLS

Well ID:	18924	Subdiv 1:	
Well Inst:	196948	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	139099	Rng No:	
Ref No:	00396404	Rng Dir:	
Cert No:	A157678	Sctn No:	
Date Compl:	2007/12/07 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	40	Elev:	
Site Add1:		Total Dpth:	465
Site Add2:		Casing Len:	0
Site City:		SWL:	230
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	80
Site Zip:		Liner Mat:	Plastic
X:	39.1433177384412	Liner Use:	
Y:	-90.9929874127958	Added By:	
Owner Add1:	300 HWY RA	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	

Wells and Additional Sources Detail Report

Owner Fn:	AUSTIN	Cont Prmt:	
Owner Ln:	ROPER	Depth Gw:	260
Owner Mi:		Driller Fn:	MARK
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63377	Drill Prmt:	001121
Well No:			
From 1:	0		
To 1:	5		
Form 1:	CLY		
From 2:	5		
To 2:	190		
Form 2:	LM		
From 3:	190		
To 3:	280		
Form 3:	SS		
From 4:	280		
To 4:	465		
Form 4:	LM		
From 5:	0		
To 5:	0		
Form 5:			
From 6:	0		
To 6:	0		
Form 6:			
From 7:	0		
To 7:	0		
Form 7:			
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSE	0.78	4,123.59	776.03	WATER WELLS

Well ID:	105668	Subdiv 1:	
Well Inst:	295578	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	205489	Rng No:	

Wells and Additional Sources Detail Report

Ref No:	01010614	Rng Dir:	
Cert No:	A228626	Sctn No:	
Date Compl:	2020/09/30 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	30	Elev:	
Site Add1:	91 SHANNON LANE	Total Dpth:	480
Site Add2:		Casing Len:	300
Site City:	SIELX	SWL:	200
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.142097036682	Liner Use:	
Y:	-90.9711978562041	Added By:	
Owner Add1:	91 SHANNON LANE	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	SIELX	Cont Ln:	FLYNN
Owner Fn:	MCKENZIE	Cont Prmt:	001120
Owner Ln:	SHANNON	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63377	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	12		
Form 1:	CLAY		
From 2:	12		
To 2:	50		
Form 2:	WHITE LIME		
From 3:	50		
To 3:	55		
Form 3:	GRAY LIME		
From 4:	55		
To 4:	65		
Form 4:	SHALE		
From 5:	65		
To 5:	135		
Form 5:	GRAY LIME		
From 6:	135		
To 6:	260		
Form 6:	SAND		
From 7:	260		
To 7:	270		
Form 7:	SHALE		
From 8:	270		
To 8:	480		
Form 8:	LIME		
From 9:	0		

Wells and Additional Sources Detail Report

To 9: 0
 Form 9:
 From 10: 0
 To 10: 0
 Form 10:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NNE	0.92	4,836.86	832.05	WATER WELLS

Well ID:	97010	Subdiv 1:	
Well Inst:	126431	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	131458	Rng No:	
Ref No:	00261956	Rng Dir:	
Cert No:	A097242	Sctn No:	
Date Compl:	2001/03/12 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	50	Elev:	
Site Add1:	CESSMAN RD	Total Dpth:	560
Site Add2:		Casing Len:	294
Site City:		SWL:	120
Site Name:		Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1781077850966	Liner Use:	
Y:	-90.9666812562473	Added By:	
Owner Add1:	1652 DOVE VALLEY WAY	Business:	DENTON RAYMOND CONSTRUCTION
Owner Add2:		Cont Fn:	DANIEL
Owner City:	OFALLON	Cont Ln:	FLYNN
Owner Fn:		Cont Prmt:	001120
Owner Ln:		Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63366	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	20		
Form 1:	ROCKY CLY		
From 2:	20		
To 2:	32		
Form 2:	FLT		
From 3:	32		
To 3:	45		
Form 3:	LIME		

Wells and Additional Sources Detail Report

From 4:	45
To 4:	52
Form 4:	WEATHERED LIME
From 5:	52
To 5:	100
Form 5:	LIME
From 6:	100
To 6:	149
Form 6:	SHALE
From 7:	149
To 7:	175
Form 7:	LIME
From 8:	175
To 8:	249
Form 8:	SHALEY LIME
From 9:	249
To 9:	380
Form 9:	WHITE LIME
From 10:	380
To 10:	515
Form 10:	LIME

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NNE	0.92	4,836.86	832.05	WATER WELLS

Well ID:	236744	Subdiv 1:	
Well Inst:	164688	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	247706	Rng No:	
Ref No:	00330927	Rng Dir:	
Cert No:	A123689	Sctn No:	
Date Compl:	2004/04/15 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	15	Elev:	
Site Add1:		Total Dpth:	480
Site Add2:		Casing Len:	0
Site City:		SWL:	210
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	84
Site Zip:		Liner Mat:	Steel
X:	39.1781077850966	Liner Use:	
Y:	-90.9666812562473	Added By:	
Owner Add1:	767 DUCKETT RD	Business:	
Owner Add2:		Cont Fn:	DANIEL

Wells and Additional Sources Detail Report

Owner City:	SILEX	Cont Ln:	FLYNN
Owner Fn:	JIM	Cont Prmt:	001120
Owner Ln:	PRUITT	Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63377	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	20		
Form 1:	CLY<15;WEATH ROCK		
From 2:	20		
To 2:	84		
Form 2:	GRY LS		
From 3:	84		
To 3:	130		
Form 3:	WT LS		
From 4:	130		
To 4:	137		
Form 4:	SOFT GRY LS		
From 5:	137		
To 5:	195		
Form 5:	LS;BRN ROCK 160-170		
From 6:	195		
To 6:	370		
Form 6:	SS		
From 7:	370		
To 7:	480		
Form 7:	LS		
From 8:	0		
To 8:	0		
Form 8:			
From 9:	0		
To 9:	0		
Form 9:			
From 10:	0		
To 10:	0		
Form 10:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NNE	0.92	4,836.86	832.05	WATER WELLS

Well ID:	289622	Subdiv 1:	
Well Inst:	121044	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	Twn No:	
Well Use:		Twn Dir:	

Wells and Additional Sources Detail Report

FID:	70237	Rng No:	
Ref No:	00251787	Rng Dir:	
Cert No:	A089441	Sctn No:	
Date Compl:	2000/05/25 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	20	Elev:	
Site Add1:	WHITE WILDLIFE RD SELEX	Total Dpth:	420
Site Add2:		Casing Len:	294
Site City:		SWL:	180
Site Name:		Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1781077850966	Liner Use:	
Y:	-90.9666812562473	Added By:	
Owner Add1:	545 BIRKHEAD	Business:	DARYL BIRKHEAD CONSTRUCTION
Owner Add2:		Cont Fn:	DANIEL
Owner City:	WINFIELD	Cont Ln:	FLYNN
Owner Fn:		Cont Prmt:	001120
Owner Ln:		Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63389	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	12		
Form 1:	DRT/CLY		
From 2:	12		
To 2:	18		
Form 2:	WTHRD LM		
From 3:	18		
To 3:	125		
Form 3:	LM		
From 4:	125		
To 4:	132		
Form 4:	SH		
From 5:	132		
To 5:	270		
Form 5:	SS		
From 6:	270		
To 6:	275		
Form 6:	SH		
From 7:	275		
To 7:	420		
Form 7:	LM		
From 8:	0		
To 8:	0		
Form 8:			

Wells and Additional Sources Detail Report

From 9: 0
 To 9: 0
 Form 9:
 From 10: 0
 To 10: 0
 Form 10:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	WNW	0.91	4,816.05	749.88	WATER WELLS

Well ID:	49008	Subdiv 1:	
Well Inst:	293807	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	24374	Rng No:	
Ref No:	01008000	Rng Dir:	
Cert No:	A221014	Sctn No:	
Date Compl:	2019/08/29 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	35	Elev:	
Site Add1:	478 WHITE WILDLIFE ROAD	Total Dpth:	400
Site Add2:		Casing Len:	240
Site City:	SILEX	SWL:	140
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1655345386271	Liner Use:	
Y:	-91.0075137868662	Added By:	
Owner Add1:	815 HUNTINGTON DR	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	TROY	Cont Ln:	FLYNN
Owner Fn:	HARVEY	Cont Prmt:	001120
Owner Ln:	RHODES	Depth Gw:	0
Owner Mi:		Driller Fn:	DANIEL
Owner St:	MO	Driller Ln:	FLYNN
Owner Zip:	63379	Drill Prmt:	001120
Well No:			
From 1:	0		
To 1:	20		
Form 1:	CLAY		
From 2:	20		
To 2:	30		
Form 2:	ROCK		
From 3:	30		
To 3:	40		

Wells and Additional Sources Detail Report

Form 3:	WEATHERED LIMESTONE
From 4:	40
To 4:	75
Form 4:	GRAY LIME
From 5:	75
To 5:	220
Form 5:	SAND
From 6:	220
To 6:	230
Form 6:	SHALE
From 7:	230
To 7:	400
Form 7:	LIME
From 8:	0
To 8:	0
Form 8:	
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SSE	0.88	4,637.68	801.30	WATER WELLS

Well ID:	286965	Subdiv 1:	
Well Inst:	219199	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	82443	Rng No:	
Ref No:	00451233	Rng Dir:	
Cert No:	A183235	Sctn No:	
Date Compl:	2011/06/02 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	21	Elev:	
Site Add1:		Total Dpth:	445
Site Add2:		Casing Len:	0
Site City:		SWL:	180
Site Name:	CONVERSION	Casing Mat:	
Site St:	MO	Liner Len:	100
Site Zip:		Liner Mat:	Plastic
X:	39.1409373679134	Liner Use:	
Y:	-90.9688174841883	Added By:	
Owner Add1:	47 SHANNON LANE	Business:	

Wells and Additional Sources Detail Report

Owner Add2:	Cont Fn: DANIEL
Owner City: SILEX	Cont Ln: FLYNN
Owner Fn: GARY	Cont Prmt: 001120
Owner Ln: SHANNON	Depth Gw: 0
Owner Mi:	Driller Fn: DAVID
Owner St: MO	Driller Ln: GUZY
Owner Zip: 63377	Drill Prmt: 002994
Well No:	
From 1: 0	
To 1: 10	
Form 1: CLY	
From 2: 10	
To 2: 15	
Form 2: WTHRD	
From 3: 15	
To 3: 65	
Form 3: WT LM	
From 4: 65	
To 4: 75	
Form 4: GRY LM	
From 5: 75	
To 5: 83	
Form 5: SH	
From 6: 83	
To 6: 135	
Form 6: GRY LM	
From 7: 135	
To 7: 295	
Form 7: SND	
From 8: 295	
To 8: 445	
Form 8: GRY LM	
From 9: 0	
To 9: 0	
Form 9:	
From 10: 0	
To 10: 0	
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	SSE	0.93	4,897.87	795.25	WATER WELLS

Well ID: 302523	Subdiv 1:
Well Inst: 303019	Subdiv 2:
Well Name:	Subdiv 3:
Well Type: Domestic	TwN No:

Wells and Additional Sources Detail Report

Well Use:		TwN Dir:	
FID:	198102	Rng No:	
Ref No:	11257910	Rng Dir:	
Cert No:	A902561	Sctn No:	
Date Compl:	2022/06/17 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	60	Elev:	
Site Add1:	135 Shannon Ln	Total Dpth:	480
Site Add2:		Casing Len:	300
Site City:	Silex	SWL:	150
Site Name:		Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:	63377	Liner Mat:	
X:	39.1401901727369	Liner Use:	
Y:	-90.9689317354785	Added By:	FLYNN DRILLING CO
Owner Add1:	135 Shannon Ln	Business:	
Owner Add2:		Cont Fn:	DANIEL
Owner City:	Silex	Cont Ln:	FLYNN
Owner Fn:	Sean	Cont Prmt:	001120
Owner Ln:	Shannon	Depth Gw:	0
Owner Mi:		Driller Fn:	BRAD
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63377	Drill Prmt:	006342
Well No:			
From 1:	0		
To 1:	8		
Form 1:	Clay		
From 2:	8		
To 2:	12		
Form 2:	Weathered		
From 3:	12		
To 3:	65		
Form 3:	White		
From 4:	65		
To 4:	69		
Form 4:	Gray		
From 5:	69		
To 5:	75		
Form 5:	Shale		
From 6:	75		
To 6:	162		
Form 6:	Gray		
From 7:	162		
To 7:	291		
Form 7:	Sand Stone		
From 8:	291		
To 8:	295		

Wells and Additional Sources Detail Report

Form 8: Shale
 From 9: 295
 To 9: 320
 Form 9: Lime
 From 10: 320
 To 10: 340
 Form 10: Shale / Lime

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNE	0.99	5,233.29	829.36	WATER WELLS

Well ID:	205512	Subdiv 1:	
Well Inst:	200374	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	290765	Rng No:	
Ref No:	00402401	Rng Dir:	
Cert No:	A152387	Sctn No:	
Date Compl:	2007/03/03 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	18	Elev:	
Site Add1:		Total Dpth:	165
Site Add2:		Casing Len:	100
Site City:		SWL:	120
Site Name:	CONVERSION	Casing Mat:	Plastic
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1848826882774	Liner Use:	
Y:	-90.9716861414795	Added By:	
Owner Add1:	276 HWY F	Business:	
Owner Add2:		Cont Fn:	
Owner City:	SILEX	Cont Ln:	
Owner Fn:	BRAD	Cont Prmt:	
Owner Ln:	NOAH	Depth Gw:	130
Owner Mi:		Driller Fn:	MARK
Owner St:	MO	Driller Ln:	LAVY
Owner Zip:	63377	Drill Prmt:	001121
Well No:			
From 1:	0		
To 1:	22		
Form 1:	CLAY		
From 2:	22		
To 2:	40		
Form 2:	GREY SHALE		
From 3:	40		

Wells and Additional Sources Detail Report

To 3:	122
Form 3:	WHITE
From 4:	122
To 4:	140
Form 4:	BRKN
From 5:	140
To 5:	165
Form 5:	LIME
From 6:	0
To 6:	0
Form 6:	
From 7:	0
To 7:	0
Form 7:	
From 8:	0
To 8:	0
Form 8:	
From 9:	0
To 9:	0
Form 9:	
From 10:	0
To 10:	0
Form 10:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	N	0.94	4,987.09	779.58	WATER WELLS

Well ID:	167742	Subdiv 1:	
Well Inst:	107788	Subdiv 2:	
Well Name:		Subdiv 3:	
Well Type:	Domestic	TwN No:	
Well Use:		TwN Dir:	
FID:	252471	Rng No:	
Ref No:	00225350	Rng Dir:	
Cert No:	A088263	Sctn No:	
Date Compl:	1999/08/16 00:00:00+00	Cnty Fips:	
Well Stat:	Active	Drill Area:	
Well Yield:	18	Elev:	
Site Add1:		Total Dpth:	425
Site Add2:		Casing Len:	316
Site City:		SWL:	230
Site Name:	CONVERSION	Casing Mat:	Steel
Site St:	MO	Liner Len:	0
Site Zip:		Liner Mat:	
X:	39.1868968486156	Liner Use:	
Y:	-90.9805362419579	Added By:	

Wells and Additional Sources Detail Report

Owner Add1:	HWY F	Business:	
Owner Add2:		Cont Fn:	EDWARD
Owner City:	EOLIA	Cont Ln:	MUDD
Owner Fn:	TONY & MARY ANN	Cont Prmt:	001037
Owner Ln:	SANSONE	Depth Gw:	0
Owner Mi:		Driller Fn:	DAVID
Owner St:	MO	Driller Ln:	GUZY
Owner Zip:	63344	Drill Prmt:	002994
Well No:			
From 1:	0		
To 1:	55		
Form 1:	CLY		
From 2:	55		
To 2:	110		
Form 2:	GRY LS		
From 3:	110		
To 3:	115		
Form 3:	WEATH LS		
From 4:	115		
To 4:	140		
Form 4:	GRY LS		
From 5:	140		
To 5:	275		
Form 5:	SS		
From 6:	275		
To 6:	285		
Form 6:	SH		
From 7:	285		
To 7:	295		
Form 7:	WT LS		
From 8:	295		
To 8:	300		
Form 8:	SH		
From 9:	300		
To 9:	425		
Form 9:	WT LS		
From 10:	0		
To 10:	0		
Form 10:			

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for LINCOLN 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 LINCOLN County

No Measures/Homes:	6
Geometric Mean:	0.8
Arithmetic Mean:	1.3
Median:	0.9
Standard Deviation:	1.6
Maximum:	4.5
% >4 pCi/L:	17
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EP A/State Residential Radon Survey of Missouri conducted during 1987-88. 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

This list of drinking water violations and enforcement actions is sourced from the U.S Environmental Protection Agency's (EPA) Enforcement and Compliance History Online (ECHO) system that incorporates Public Water Systems data from EPA's Safe Drinking Water Information System (SDWIS) database, as part of the national download of Safe Drinking Water Act (SDWA) data. SDWIS contains information on public water systems from the Public Water System Supervision (PWSS) Program, including monitoring, enforcement, and violation data related to requirements established by the SWDA. 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

This national download of Safe Drinking Water Act (SDWA) data is sourced from the U.S Environmental Protection Agency's (EPA) Enforcement and Compliance History Online (ECHO) system that incorporates Public Water Systems data from EPA's Safe Drinking Water Information System (SDWIS) database. SDWIS contains information on public water systems from the Public Water System Supervision (PWSS) Program related to requirements established by the Safe Drinking Water Act (SDWA). Address information provided in SWDIS may correspond either with the physical 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's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP

Appendix

is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). WQX3.0 is the newest version of the data standard that is delivered from the WQP, and this updated version holds new profiles containing USGS data added since March 11, 2024 sourced from their beta version website.

State Sources

Oil and Gas Wells

OGW

Oil and Gas Wells Data Collected by Missouri Department of Natural Resources.

Public Drinking Water Wells

PWSW

The Public Drinking Water Wells data consists of community water supply wells in Missouri. This data was made available by the Missouri Department of Natural Resources to facilitate safe public drinking water systems and awareness.

Springs

SPRING

Locations of known and probable spring locations as determined by review of U.S. Geological Survey topographic maps and field verification, made available by the Missouri Geological Survey.

Water Wells

WATER WELLS

This data set provides information about certified water wells and is maintained by the Missouri Department of Natural Resources (DNR), Missouri Geological Survey (MGS), Geological Survey Program (GSP), Wellhead Protection Section (WHP).

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APPENDIX D

DATABASE REPORT



DATABASE REPORT

Project Property:	<i>Millcreek BESS Ave of the Saints Silex MO</i>
Project No:	
Report Type:	<i>Database Report</i>
Order No:	<i>26081300772</i>
Requested by:	<i>Civil & Environmental Consultants, Inc.</i>
Date Completed:	<i>August 17, 2026</i>

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Executive Summary

Property Information:

Project Property: *Millcreek BESS
Ave of the Saints Silex MO*

Project No:

Coordinates:

Latitude: 39.16074591
Longitude: -90.98073151
UTM Northing: 4,336,556.83
UTM Easting: 674,463.07
UTM Zone: UTM Zone 15S

Elevation: 772 FT

Order Information:

Order No: 26081300772
Date Requested: August 13, 2026
Requested by: Civil & Environmental Consultants, Inc.
Report Type: Database Report

Historicals/Products:

Aerial Photographs *Historical Aerials (with Project Boundaries)*
ERIS Xplorer [ERIS Xplorer](#)
Excel Add-On *Excel Add-On*
Physical Setting Report (PSR) *Physical Setting Report (PSR)*
Topographic Map *Topographic Maps*

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
<u>Standard Environmental Records</u>								
Federal								
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
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS	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
FRP	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
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

SHWS REG LOG	Y	1	0	0	0	0	0	0
SHWS	Y	1	0	0	0	0	0	0
SMAR	Y	0.5	0	0	0	0	-	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
SHWS REM/AS	Y	0.5	0	0	0	0	-	0
DELISTED HWC	Y	1	0	0	0	0	0	0
DEL SHWS	Y	1	0	0	0	0	0	0
HWCP	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
LST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
TANK AUL	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
DEL TANK	Y	0.25	0	0	0	-	-	0
AUL	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	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 INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County

No County standard environmental record sources available for this State.

Additional Environmental Records

Federal

<i>Database</i>	<i>Searched</i>	<i>Search Radius</i>	<i>Project Property</i>	<i>Within 0.12mi</i>	<i>0.125mi to 0.25mi</i>	<i>0.25mi to 0.50mi</i>	<i>0.50mi to 1.00mi</i>	<i>Total</i>
OSC RESPONSE	Y	0.125	0	0	-	-	-	0
PFAS GHG	Y	0.5	0	0	0	0	-	0
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
PFAS ERNS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
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
FUDS MRS	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	1	0	0	0	0	1
LM SITES	Y	1	0	0	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
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
POWER PLANTS	Y	0.125	0	0	-	-	-	0
HIST RISK	Y	0.125	0	0	-	-	-	0
NPDES BIOSOLIDS	Y	PO	0	-	-	-	-	0

State

DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
SPILLS	Y	0.125	0	0	-	-	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
PFAS SAMPLING	Y	0.5	0	0	0	0	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Total:	1	0	0	0	0	0	1
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*PO – Property Only

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

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
1	MRDS	UNKNOWN LS	LINCOLN COUNTY SILEX MO 63377 <i>Dep ID: 10292873</i>	W	0.00 / 0.00	-7	16

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the surrounding properties.

Executive Summary: Summary by Data Source

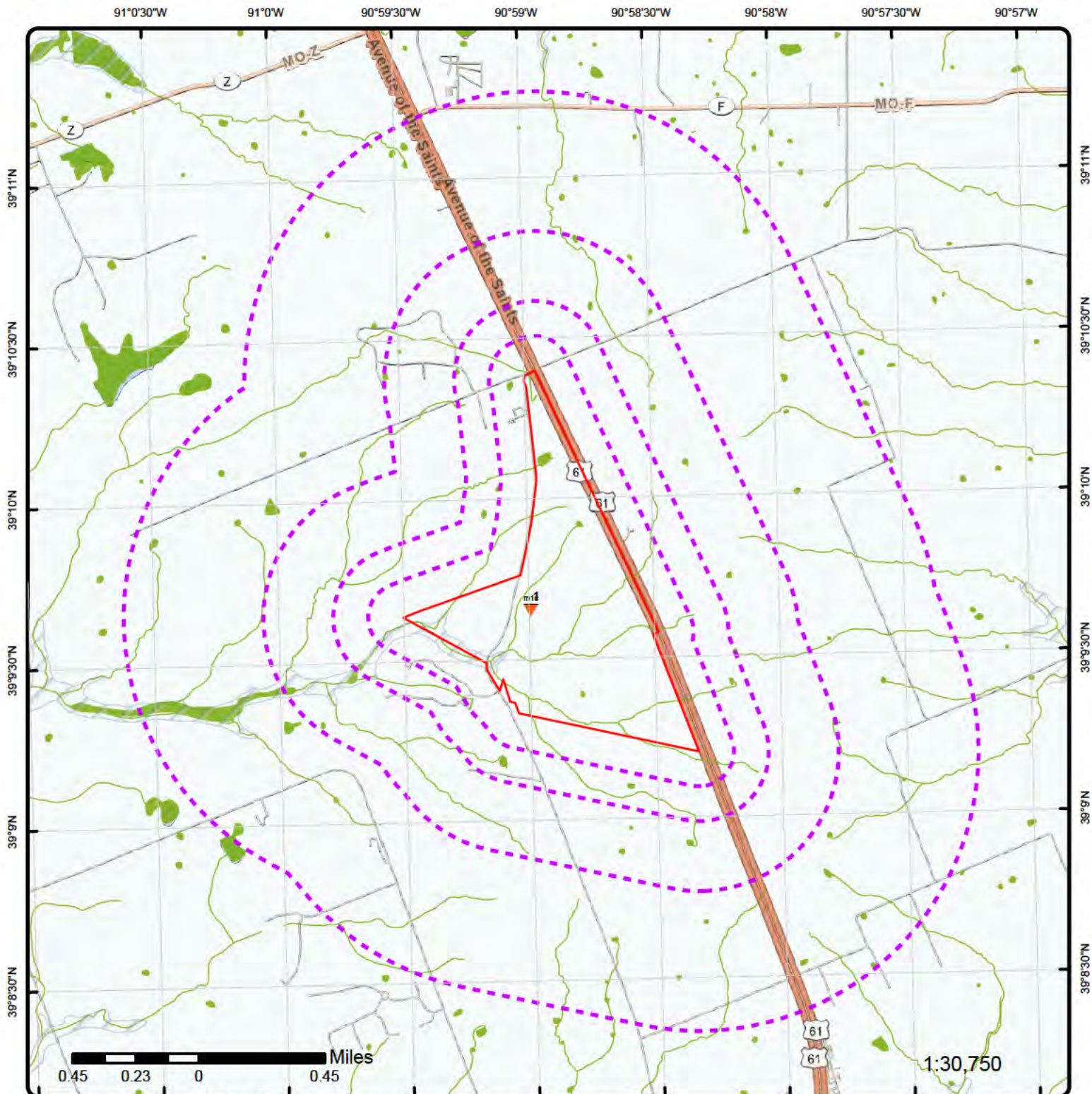
Non Standard

Federal

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2016 has found that there are 1 MRDS site(s) within approximately 1.00miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
UNKNOWN LS	LINCOLN COUNTY SILEX MO 63377	W	0.00 / 0.00	1
<i>Dep ID: 10292873</i>				



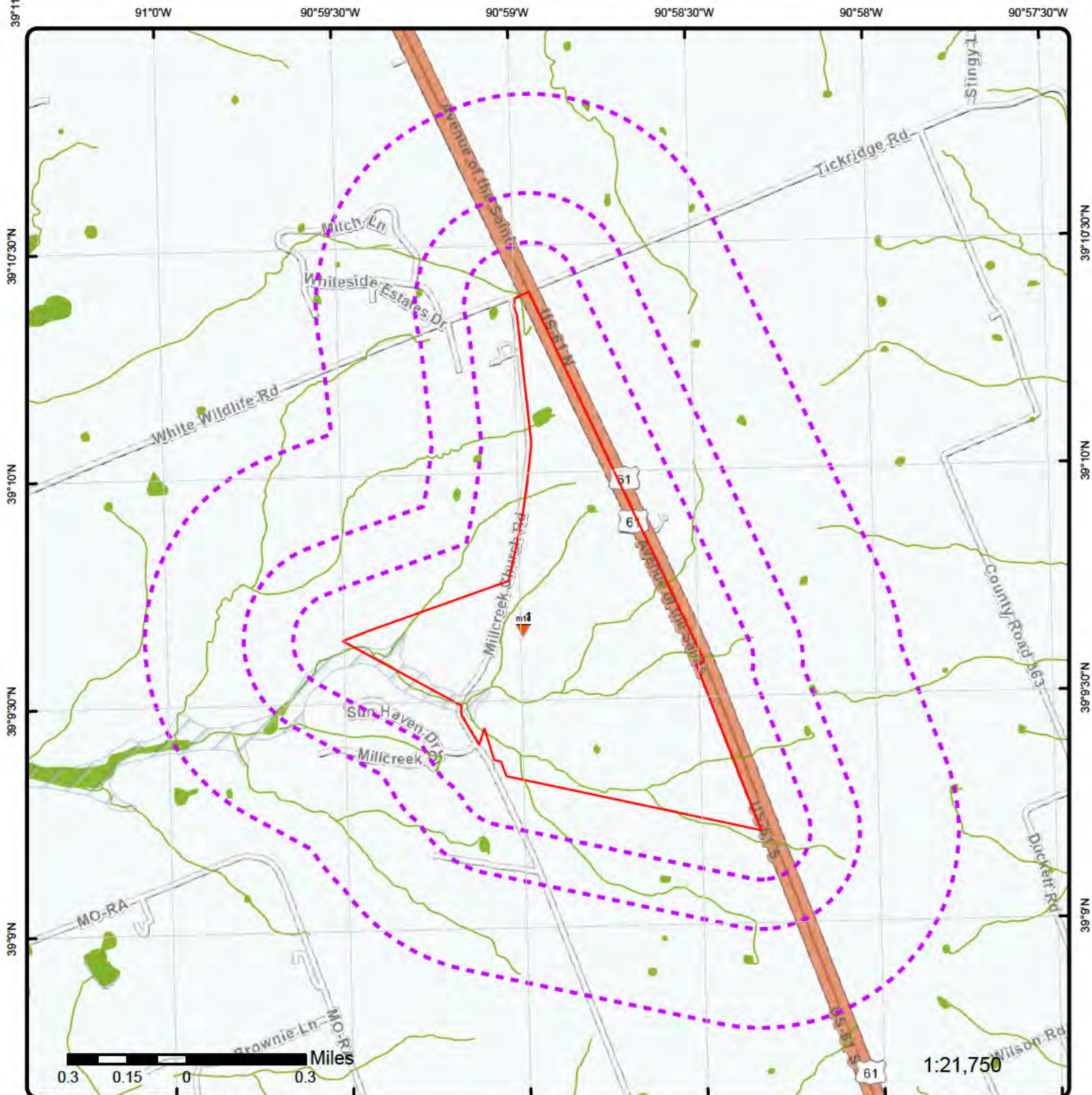
Map: 1.0 Mile Radius

Order Number: 26081300772

Address: Ave of the Saints, Silex, MO



- | | | | |
|---|---|--|--|
| Project Property | Freeways; Highways | State | FWS Special Designation Areas |
| Buffer Outline | Traffic Circle; Ramp | Country | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| ▲ Sites with Higher Elevation | Major & Minor Arterial | National Wetland | |
| ■ Sites with Same Elevation | Traffic Circle; Ramp | Indian Reserve Land | |
| ▼ Sites with Lower Elevation | Local Road | 100 Year Flood Zone | |
| ○ Sites with Unknown Elevation | Rail | 500 Year Flood Zone | |
| Areas with Higher Elevation | | | |
| Areas with Same Elevation | | | |
| Areas with Lower Elevation | | | |
| Areas with Unknown Elevation | | | |



Map: 0.5 Mile Radius

Order Number: 26081300772

Address: Ave of the Saints, Silex, MO



Project Property

Buffer Outline

Sites with Higher Elevation

Sites with Same Elevation

Sites with Lower Elevation

Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

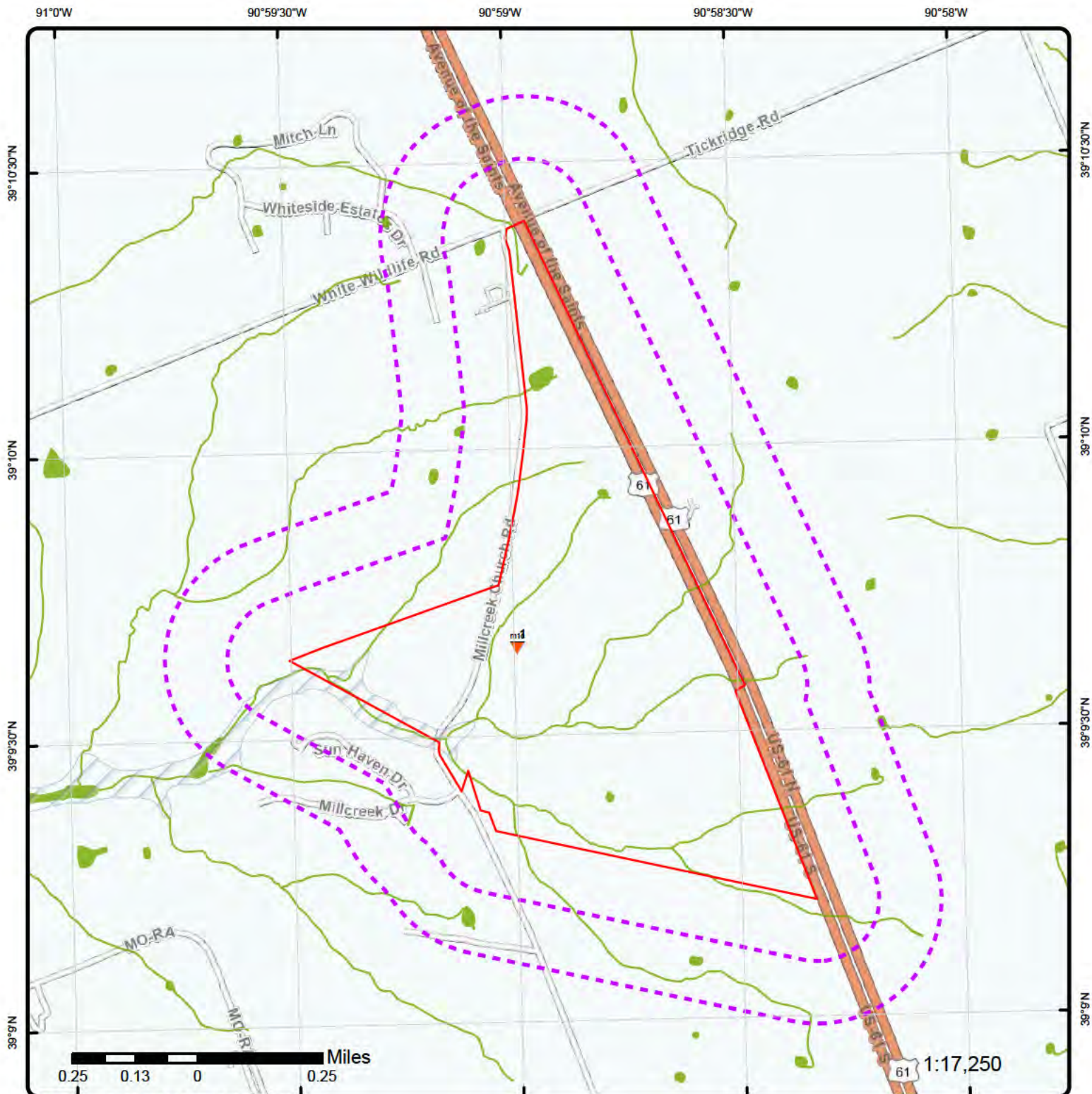
Indian Reserve Land

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)





Aerial

Year: 2025

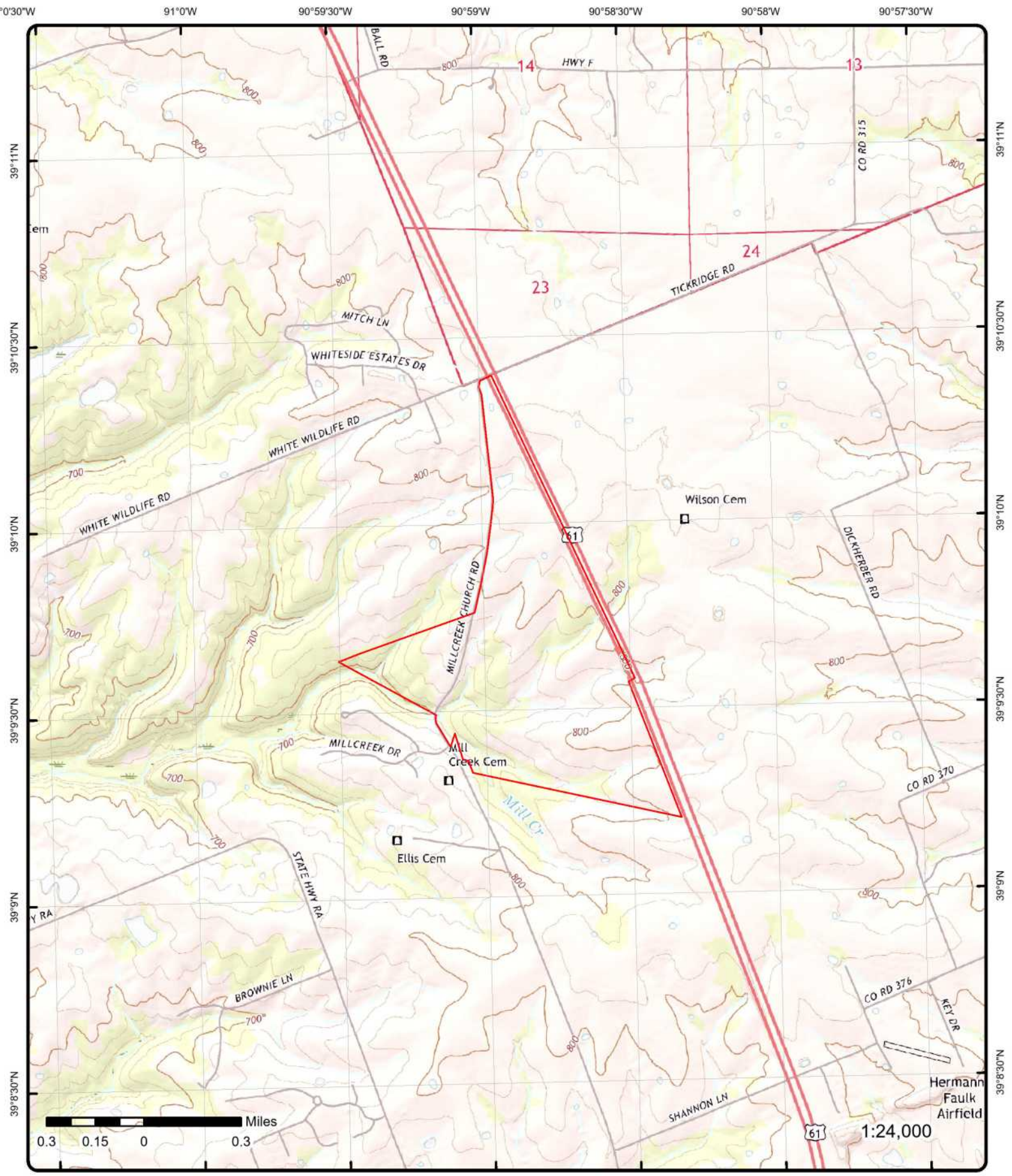
Order Number: 26081300772

Address: Ave of the Saints, Silex, MO



Source: ESRI World Imagery

© ERIS Information Partnership



Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 1	W	0.00 / 0.00	765.31 / -7	UNKNOWN LS LINCOLN COUNTY SILEX MO 63377	MRDS

Dep ID:	10292873	I1:	58
Dev Status:	PAST PRODUCER	Latitude:	39.160889
Code List:	STN_C	Longitude:	-90.983215
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10292873		

Commodity

I1:	47	Line:	1
Code:	STN_C	Inserted By:	MAS migration
Commodity:	Stone, Crushed/Broken	Insert Date:	29-OCT-02
Commodity Type:	Non-metallic	Updated By:	USGS
Commodity Group:	Stone, Crushed	Update Date:	29-OCT-02
Importance:	Primary		

Names

I1:	50	Inserted By:	MAS migration
Status:	Current	Insert Date:	29-OCT-02
Site Name:	Unknown Ls	Updated By:	USGS
Line:	2	Update Date:	29-OCT-02

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
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No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

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

National Priority List:

NPL

The U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL) includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program, 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. This data includes NPL sites represented as polygons, where available, that can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Currently on the Final NPL (F)' and/or the 'Site is Part of NPL Site (A)'. These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. As site investigation and remediation progress, OUs may be added, modified or refined. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

National Priority List - Proposed:

PROPOSED NPL

Sites proposed by the U.S. Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

Deleted NPL:

DELETED NPL

Sites deleted from the U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL). 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 represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

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 EPA's Facility Registry Service map tool. This data may also include applicable sites represented as polygons sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Not on the NPL (N)', 'Removed from Proposed (R)', and/or 'Pre-Proposal Site (S)'. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 5, 2026**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. This data may also include applicable sites represented as polygons sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Not on the NPL (N)', 'Removed from Proposed (R)', and/or 'Pre-Proposal Site (S)'. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jun 29, 2026**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**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**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**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 the U.S. Environmental Protection Agency's (EPA) 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: May 17, 2026

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

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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 that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: May 17, 2026

RCRA Generator List:[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This list also includes RCRAInfo sites that have notified as LQGs that do not have a registered Site Manager or Certifier in RCRAInfo.

Government Publication Date: May 17, 2026

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

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This list also includes RCRAInfo sites that have notified as SQGs that do not have a registered Site Manager or Certifier in RCRAInfo.

Government Publication Date: May 17, 2026

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

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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: May 17, 2026

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

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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: May 17, 2026

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: May 17, 2026

Federal Engineering Controls-ECs:

FED ENG

List of Engineering controls (ECs) made available 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 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: Jun 29, 2026

Federal Institutional Controls- ICs:

FED INST

List of Institutional controls (ICs) made available 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 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: Jun 29, 2026

Land Use Controls Information System:

LUCIS

The Land Use Controls Information System (LUCIS) database is sourced from the U.S. Department of the Navy (DON). This data contains information for former Base Realignment and Closure (BRAC) properties across the United States. DON's BRAC office was tasked with tracking certain base closures while requiring the prevention of risks to human health and the environment of those properties with LUCs in place. Regarding currently available LUC Sites data, the sites listing is limited to centroid point locations for the overall installation property boundaries. Formerly obtained LUC Sites data may reflect site details that applied previously for a BRAC property.

Government Publication Date: Jun 13, 2024

Institutional Control Boundaries at NPL sites:

NPL IC

These boundaries of Institutional Control areas at sites on the U.S. Environmental Protection Agency's (EPA) National Priorities List (NPL), or as Proposed or Deleted, are sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). The EPA's NPL includes 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. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes.

Government Publication Date: Jul 6, 2026

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: Apr 12, 2026

Brownfields Properties:

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. This list of Brownfields Properties is provided by the United States Environmental Protection Agency (EPA) and is sourced from the Cleanups in My Community (CIMC) web application. The brownfields data are reported by grant recipients through the EPA's Assessment, Cleanup and Redevelopment Exchange System (ACRES). Many properties meet the definition of a brownfield but are not funded by the EPA's program. Such properties may instead be supported by state or local governments, private organizations, or nonprofit entities.

Government Publication Date: Mar 31, 2026

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

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (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 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. The list includes FRP facilities sourced from the EPA FOIA office and from previously available Homeland Infrastructure Foundation-Level Data (HIFLD) file/s. Disclaimer: Per the EPA FOIA Office, the verification process for current requested FRP data is undergoing review and revision, and any similar reporting will be made public in Fiscal Year 2027. For this reason, the latest available FOIA file may be incomplete.

Government Publication Date: Jun 1, 2025

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: Jun 1, 2025

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

This list of petroleum refineries is sourced from the U.S. Energy Information Administration (EIA), Refinery Capacity Report. The listing includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year. The geographic area the report covers is the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, and other U.S. possessions. Per the EIA, the facility location data represents the approximate location based on research of publicly available information from sources such as Federal agencies, company websites, and satellite images on public websites.

Government Publication Date: Oct 31, 2024

Petroleum Product and Crude Oil Rail Terminals:

BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from Oak Ridge National Laboratory hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals 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 with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Jun 5, 2025

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: Jun 29, 2026

Superfund Decision Documents:

SUPERFUND ROD

This database contains a list 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 completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Mar 31, 2026

State**Registry Log:**

SHWS REG LOG

This Registry Log includes sites currently listed on and proposed for the Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites in Missouri, and it is maintained by the Missouri Department of Natural Resources (DNR) pursuant to the Missouri Hazardous Waste Management Law, Section 260.440, RSMo. The Registry lists only those sites known to be contaminated with substances that meet the definition of hazardous waste. Therefore, sites contaminated with hazardous substances may not be included. It is possible for these sites to be addressed through other state and federal laws. The DNR makes every effort to provide the most complete Registry possible; however, many eligible sites are not yet listed due to pending or ongoing investigations, cleanup negotiations or appeals. Also, unreported facilities or contaminated sites may exist, which the DNR is either not aware of or is not actively involved with currently.

Government Publication Date: Mar 11, 2026

Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites:

SHWS

As required by Section 260.445, RSMo, the Missouri Department of Natural Resources (DNR) prepares an annual report regarding sites listed on the Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites in Missouri, published for the latest Fiscal Year as the Missouri Registry Annual Report. The DNR conducts annual inspections at each Registry site. If conditions at a site have changed over the past year, the committee may recommend a change in classification to better define the threat to human health and the environment. The registry is not intended or legally required to provide a comprehensive inventory of sites where hazardous chemicals and wastes have been disposed of in Missouri. Instead, it is developed based on a specific legal mandate, which directs that sites be listed on the registry if they are contaminated with hazardous substances that: A. Meet the legal definition of hazardous waste according to Missouri statutes and regulations. B. Were disposed of before state and federal regulations were established for that kind of waste, which began in 1980, or disposed of illegally since that time; and C. Are present at concentrations above health-based screening levels. This database serves a purpose similar to that of the federal Superfund Enterprise Management System (SEMS), functioning as a state-level counterpart for tracking potential hazardous substance release sites.

Government Publication Date: Jun 30, 2025

Site Management and Reporting System:

SMAR

The Missouri Department of Natural Resources (MDNR) maintains the Site Management and Reporting System (SMARS) database. This SMARS data list is specific to the MDNR's Environmental Remediation Program Site Specific Query that includes information for Brownfields Voluntary Cleanup Program (BVCP), Superfund, and Federal Facility sites.

Government Publication Date: Jul 1, 2026

Delisted Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites:

DELISTED SHWS

The Missouri Department of Natural Resources would remove a record from the Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites, if the record is not a Registry Site. This list contains all such non-registry sites that are not included in the Registry Removed sites.

Government Publication Date: Mar 6, 2026

Registry Sites Removed or Action Suspended:

SHWS REM/AS

This is a list of sites that were either removed or had registry actions suspended from the Missouri Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites, based on the latest fiscal year Missouri Registry Annual Report published by the Missouri Department of Natural Resources (DNR).

Government Publication Date: Jun 30, 2025

Delisted Hazardous Waste Cleanup Sites:

DELISTED HWC

List of sites which once appeared on the Missouri Department of Natural Resources (MDNR)'s Hazardous Waste Program Cleanup Sites list, but have since been removed.

Government Publication Date: May 29, 2026

Registry Sites Withdrawn or Deleted:

DEL SHWS

This database contains a list of sites that were removed from the Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites, or Registry action was suspended due to cleanup. This database serves a purpose similar to that of the federal Superfund Enterprise Management System (SEMS), functioning as a state-level counterpart for tracking potential hazardous substance release sites.

Hazardous Waste Cleanup Program Sites:

HWCP

Missouri's Department of Natural Resources (MDNR) manages a Hazardous Waste Program Cleanup Sites list that includes sites that were remediated or investigated under the oversight of the Hazardous Waste Program. These include Superfund, Federal Facilities, Resource Conservation and Recovery Act (RCRA) Corrective Action, and Brownfields/Voluntary Cleanup Program sites that fall under the following four categories: Active Sites, Long Term Stewardship Sites, Environmental Notice Sites and Completed Sites.

Government Publication Date: May 29, 2026

Solid Waste Facility List:

SWF/LF

This list of solid waste facility locations is made available by the Missouri Department of Natural Resources (DNR). The listing includes Sanitary Landfills, Utility Waste Landfills, Special Waste Landfills, Demolition Landfills and other solid waste type facilities. The DNR provides no warranty, expressed or implied, as to the accuracy of the data, and no responsibility is assumed by the DNR in the use of these data.

Government Publication Date: May 22, 2026

Leaking Storage Tank:

LST

List of remediation facilities in the Missouri Department of Natural Resources (DNR)'s Underground Storage Tank and Aboveground Storage Tank Summary database.

Government Publication Date: Mar 9, 2026

Delisted Leaking Storage Tank:

DELISTED LST

This database contains a list of closed leaking storage tank sites that were removed from the Missouri Department of Natural Resources (DNR)'s Underground Storage Tank and Aboveground Storage Tank Summary database.

Government Publication Date: Mar 9, 2026

Regulated Tanks with Activity and Use Limitations:

TANK AUL

List of Regulated Petroleum and Hazardous Substance Storage Tanks with Activity and Use Limitations, made available by the Missouri Department of Natural Resources (DNR) via the Environmental Site Tracking and Research Tool (E-START).

Government Publication Date: Jan 30, 2026

Petroleum Storage Tanks:

UST

List of Underground Storage Tank (UST) facilities included in the Missouri Department of Natural Resources (DNR)'s Underground Storage Tank summary database and the Environmental Site Tracking and Research Tool (E-START) .

Government Publication Date: Mar 9, 2026

Aboveground Storage Tanks:

AST

List of Aboveground Storage Tanks (ASTs) inspected by the Missouri Department of Agriculture's Petroleum/Propane/Anhydrous Ammonia Inspection Program.

Government Publication Date: Jun 18, 2026

Delisted Storage Tanks:

DEL TANK

This database contains a list of closed storage tank sites that were removed from the Missouri Department of Natural Resources (DNR)'s Underground Storage Tank summary database.

Government Publication Date: Jun 18, 2026

Activity and Use Limitations:

AUL

Missouri's Department of Natural Resources (MDNR) manages a Hazardous Waste Program Cleanup Sites list that includes sites that have Activity and Use Limitations in place. These mechanisms or controls ensure that exposure pathways to Contaminants of Concern (COCs) through current or reasonable future uses, are not completed for as long as the COCs pose an unacceptable risk to human health, public welfare or the environment.

Government Publication Date: May 29, 2026

Brownfields/Voluntary Cleanup Program:

VCP

This Voluntary Cleanup Program (VCP) Site Status List is provided by the Missouri Department of Natural Resources (DNR) and produced from the DNR's Site Management and Reporting System (SMARS) database. First established by the state legislature in 1994, the DNR's Brownfields/Voluntary Cleanup Program (BVCP) provides state oversight for voluntary cleanups of properties contaminated with hazardous substances. Many sites entering the program are not heavily contaminated and are contaminated by sources not addressed by any of the department's regulatory groups, such as Emergency Response, Superfund, Resource Conservation and Recovery Act (RCRA) or Petroleum Storage Tanks. Property owners, business operators or prospective buyers want the property cleaned up to standards acceptable to the state, and to receive some type of cleanup certification from the DNR. This certification can greatly reduce the environmental liability associated with these properties.

Government Publication Date: Jul 1, 2026

Brownfields Assessment Sites List:

[BROWNFIELDS](#)

This Brownfields Assessment List is provided by the Missouri Department of Natural Resources (DNR) and produced from the DNR's Site Management and Reporting System (SMARS) database. Under a cooperative agreement with the U.S. Environmental Protection Agency (EPA), the DNR's Brownfields/Voluntary Cleanup Program (BVCP) staff conducts brownfields site-specific assessments of properties for public entities, as well as for not-for-profit organizations. Local governments acquire contaminated properties through foreclosure for back taxes, land donations or may own property they would like to sell for redevelopment purposes. Entities sometimes have difficulty finding enough funding to pay for environmental assessments before redevelopment. The BVCP provides technical assistance to help communities assess properties.

Government Publication Date: Jul 1, 2026

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

[INDIAN LUST](#)

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 7, which includes Missouri, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Missouri, according to the U.S. Department of Interior, Bureau of Indian Affairs.

Government Publication Date: Oct 12, 2017

Underground Storage Tanks (USTs) on Indian Lands:

[INDIAN UST](#)

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 7, which includes Missouri, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Missouri, according to the U.S. Department of Interior, Bureau of Indian Affairs.

Government Publication Date: Oct 12, 2017

Delisted Tribal Leaking Storage Tanks:

[DELISTED INDIAN LST](#)

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 28, 2026

Delisted Tribal Underground Storage Tanks:

[DELISTED INDIAN UST](#)

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 28, 2026

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

On-Scene Coordinator Response Sites:

[OSC RESPONSE](#)

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation. The site listing is made available by the EPA's secure Freedom of Information Act (FOIA) process.

Government Publication Date: Mar 24, 2026

PFAS Greenhouse Gas Emissions Data:

[PFAS GHG](#)

The U.S. Environmental Protection Agency's (EPA) Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO₂e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. This dataset is sourced from the EPA through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools, and it includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified as PFAS based on EPA's CompTox Chemicals Dashboard lists of PFAS with defined and undefined structures. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time. Note that some regulatory programs have specified chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard.

Government Publication Date: May 18, 2026

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 U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 1, 2026

Toxics Release Inventory (TRI) Program:

[TRIS](#)

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2024.

Government Publication Date: Nov 5, 2025

PFOA/PFOS Contaminated Sites:

[PFAS NPL](#)

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Mar 30, 2026

Federal Agency Locations with Known or Suspected PFAS Detections:

[PFAS FED SITES](#)

This site list of Federal Agency Locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS) is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The EPA outlines that these data are gathered from several federal entities, such as the federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration (NASA), Department of Transportation (DOT), and Department of Energy (DOE). The dates this data was extracted for the PFAS Analytic Tools range from 2021 to 2025 per agency entity dataset. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Dec 15, 2025

SSEHRI PFAS Contamination Sites:

[PFAS SSEHRI](#)

This PFAS Contamination Site Tracker database is compiled by the PFAS Project Lab, part of 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. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map by the PFAS-REACH team, credited to PFAS Project Lab, Silent Spring Institute, and PFAS Exchange. Disclaimer: The source conveys the data 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. Access the following source link for the most current information: <https://pfasproject.com/pfas-sites-and-community-resources/>

Government Publication Date: Aug 1, 2025

National Response Center PFAS Spills:

[PFAS ERNS](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam," "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Jul 20, 2026

PFAS NPDES Discharge Monitoring:

[PFAS NPDES](#)

This list of National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) permitted facilities, with required monitoring for Per- and Polyfluoroalkyl Substances (PFAS), is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for PFAS, limited to the years 2007 - present. EPA Disclaimer: Currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: Mar 30, 2026

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

PFAS Water Quality Portal Sampling Data:

[PFAS WATER](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Environmental Media Sampling Data is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The Water Quality Portal (WQP), as a cooperative service sponsored by the United States Geological Survey, the EPA, and the National Water Quality Monitoring Council, is part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations, and individuals submit project details and sampling results to this public repository. Limitations: EPA did not carry out the sampling or testing of a majority of the data in the WQP PFAS dataset. EPA can only speak to the accuracy and completeness of the data from projects like the National Aquatic Resource Surveys for which EPA is the data owner/organization. Data may exist within the file on Quality Assurance Project Plans (QAPPs) and the approving agency of the QAPP, if a QAPP is entered.

Government Publication Date: Feb 2, 2026

PFAS TSCA Manufacture and Import Facilities:

[PFAS TSCA](#)

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest:

PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 25, 2026

PFAS Industry Sectors:

PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The dataset was developed from various sources that show which industries may be handling PFAS including: EPA's ECHO records restricted to potential PFAS-handling industry sectors, based on the North American Industry Classification System (NAICS) Codes and Standard Industrial Classification (SIC) Codes associated federal regulatory programs (e.g., Clean Water Act, Clean Air Act, and Resource Conservation and Recovery Act) at the facility level; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training Sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: May 4, 2026

Hazardous Materials Information Reporting System:

HMIRS

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: Jan 29, 2026

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: Nov 30, 2023

Toxic Substances Control Act:

TSCA

The U.S. 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). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

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: Mar 26, 2026

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 Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: May 2, 2026

Drycleaner Facilities:

[FED DRYCLEANERS](#)

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. This EPA source file tracks facilities that possess NAICS and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 19, 2026

Delisted Drycleaner Facilities:

[DELISTED FED DRY](#)

List of sites which once appeared on - and have since been removed from - the list of drycleaner facilities included in Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. This EPA source file tracks facilities that possess NAICS and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 19, 2026

Formerly Used Defense Sites:

[FUDS](#)

Formerly Used Defense Sites (FUDS) are properties 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 environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is sourced from the USACE's Geospatial FUDS Property Point, FUDS Project Point, and FUDS Property Polygon layers which apply to the Fiscal Year 2024 Inventory. DISCLAIMER: Polygon data are based on preliminary findings, and not all properties currently have polygon data available. This data represents the results of data collection/processing for a specific USACE activity and is in no way considered comprehensive or to be used in any legal or official capacity as presented on this site. The USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein.

Government Publication Date: Apr 15, 2026

FUDS Munitions Response Sites:

FUDS MRS

This Munitions Response Sites (MRS) dataset is published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) for Fiscal Year 2024 by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial FUDS MRS data layer. The USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein.

Government Publication Date: Apr 15, 2026

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

This list of flagged pipeline incidents is 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. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: Jan 7, 2026

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 States 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: May 8, 2026

Surface Mining Control and Reclamation Act Sites:

SMCRA

This inventory of land and water impacted by past mining (primarily legacy coal mining operations) is maintained by the U.S. Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSMRE), as it provides information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) Problems, as well as information on the cost associated with the reclamation of those problems. The data 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. Disclaimer: Per the OSMRE, States and tribes who enter their data into e-AMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: May 7, 2026

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:

LM SITES

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). The intent of the site location is to provide a general reference point to the site on a national scale. The coordinates of each site point can be the location of a site monument, the centroid of the site boundary, or a general location of the site. 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: Jan 9, 2026

Alternative Fueling Stations:

ALT FUELS

This list of alternative fueling stations is sourced from the U.S. Department of Energy's (DOE) Alternative Fuels Data Center (AFDC) and National Renewable Energy Laboratory (NREL). The DOE'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), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Jun 4, 2026

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 Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. 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: Dec 30, 2025

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

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Sep 26, 2025

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: Aug 12, 2025

Power Plants:

POWER PLANTS

This list of power plants is provided by the U.S. Energy Information Administration (EIA). The listing includes operable electric generating plants in the United States by energy source, originating from the EIA-860, Annual Electric Generator Report; EIA-860M, Monthly Update to the Annual Electric Generator Report; and EIA-923, Power Plant Operations Report. It includes all operable plants by energy source with a combined nameplate capacity of 1 megawatt or more that are operating, are on standby, or out of service for short- or long-term.

Government Publication Date: Jun 5, 2025

Historical Business Activity Risk:

HIST RISK

Proprietary list of sites identified as potentially having engaged in business activity that poses a higher-than-normal risk of contamination. Records originate from historical city directories, and are included in this list based on broad business categories Potentially Hazardous Chemical Users and Fuel and Automotive, including but not limited to Dry Cleaners and Fuel Stations, Garages, etc. Inclusion in this listing does not indicate that there is or ever has been contamination; rather, sites are included in this list due to their potential for having engaged in a business activity presenting an elevated risk of contamination. The list was compiled from various city directories including Polks, Millers, Mullin Kille, Interstate Directory, and State Directory Co; spanning roughly 1920s through 1960 depending on information available by city.

Government Publication Date: Jan 1, 1960

NPDES Biosolids Program Permit Holders:

NPDES BIOSOLIDS

This Water National Pollutant Discharge Elimination System (NPDES) Biosolids Permits list is sourced from the U.S. Environmental Protection Agency's (EPA) Enforcement and Compliance History Online data. EPA's Integrated Compliance Information System (ICIS) for NPDES includes facility and compliance information for NPDES permits in the ECHO Biosolids facility universe. Per the EPA, when sewage from households and businesses (and sometimes wastewater from industrial dischargers) is sent to a wastewater treatment plant, the liquids are separated from the solids, producing a semi-solid, nutrient-rich product known as "sewage sludge" or "biosolids". The EPA typically uses the term "biosolids" to mean sewage sludge that has been treated to meet the agency's regulatory requirements and is intended to be land applied as a soil conditioner or fertilizer.

Government Publication Date: May 2, 2026

State

Dry Cleaner List:

DRYCLEANERS

List of sites included in the Dry Cleaner List made available by the Missouri Department of Natural Resources. Includes sites that are known or thought to have been a dry cleaning facility at one time.

Government Publication Date: Nov 30, 2017

Delisted Dry Cleaner:

DELISTED DRYCLEANERS

List of sites which once appeared on - and have since been removed from - the list of dry cleaners made available by the Missouri Department of Natural Resources.

Government Publication Date: Nov 30, 2017

Environmental Incident Summary Database:

SPILLS

List of hazardous substance release incidents reported to and entered in the Missouri Department of Natural Resources' (DNR) Environmental Emergency Response Tracking System (MEERTS) and Environmental Logging Index (MERLIN). Incidents occurring on or before October 31, 2021 are tracked in the DNR's MEERTS. Incidents occurring since November 1, 2021 are tracked in the DNR's MERLIN. The listing also includes locations of responses to environmental incidents by the DNR Emergency Response Section available on the Missouri Spatial Data Information Service Open Data.
Government Publication Date: Jun 12, 2026

Tier 2 Report:

TIER 2

A list of Tier 2 facilities in Missouri. This list is made available by the State Emergency Management Agency (SEMA), a division of the Department of Public Safety. SEMA is the state of Missouri's coordinating agency for disaster planning, response, and recovery.

Government Publication Date: Sep 23, 2019

Per- and Polyfluoroalkyl Substances (PFAS):

PFAS

A list of sites where PFAS/PFOS or a PFOS or PFAS-containing material is currently or ever has been: manufactured, used, stored, disposed of, or released. This list is made available by the Missouri Department of Natural Resources.

Government Publication Date: Jan 6, 2026

Public Drinking Water System PFAS Sampling:

PFAS SAMPLING

This Per- and Polyfluoroalkyl Substances (PFAS) sampling data is sourced from the Missouri Department of Natural Resources (MODNR) PFAS Viewer Tool. The data identifies the approximated centroid location (center point for general service area) of the facilities associated with a given public water system for voluntary PFAS sampling. These results will indicate either detections above health advisory limits, detections below health advisory limits, or no detection of PFAS. No warranty is expressed or implied by the MODNR, that these point locations reflect the location of any facility of a public water system.

Government Publication Date: Jun 24, 2024

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 E

AERIAL PHOTOGRAPHS



HISTORICAL AERIALS

Project Property: Millcreek BESS
Ave of the Saints
Silex MO

Project No:

Requested By: Civil & Environmental Consultants, Inc.

Order No: 26081300772

Date Completed: August 18, 2026

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Attachment A

Date	Source	Scale	Comments
2024	United States Department of Agriculture	1" = 1000'	
2022	United States Department of Agriculture	1" = 1000'	
2020	United States Department of Agriculture	1" = 1000'	
2018	United States Department of Agriculture	1" = 1000'	
2016	United States Department of Agriculture	1" = 1000'	
2014	United States Department of Agriculture	1" = 1000'	
2012	United States Department of Agriculture	1" = 1000'	
2010	United States Department of Agriculture	1" = 1000'	
2009	United States Department of Agriculture	1" = 1000'	
2007	United States Department of Agriculture	1" = 1000'	
2006	United States Department of Agriculture	1" = 1000'	
2005	United States Department of Agriculture	1" = 1000'	
2004	United States Department of Agriculture	1" = 1000'	
2003	United States Department of Agriculture	1" = 1000'	
1995	United States Geological Survey	1" = 1000'	
1985	United States Geological Survey	1" = 1000'	
1974	United States Geological Survey	1" = 1000'	
1963	Agricultural Stabilization & Conserv. Service	1" = 1000'	Photo Index - Best Available
1956	Army Mapping Service	1" = 1000'	Best Copy Available
1941	Agricultural Stabilization & Conserv. Service	1" = 1000'	Photo Index - Best Available

Environmental Risk Information Services

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1.866.517.5204 | info@erisinfo.com | erisinfo.com



Year: 2024
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2022
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2020
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2018
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silcox, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2016
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2014
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2012
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2010
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2009
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2007
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2006
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2005
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2004
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772



Year: 2003
Source: USDA
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772

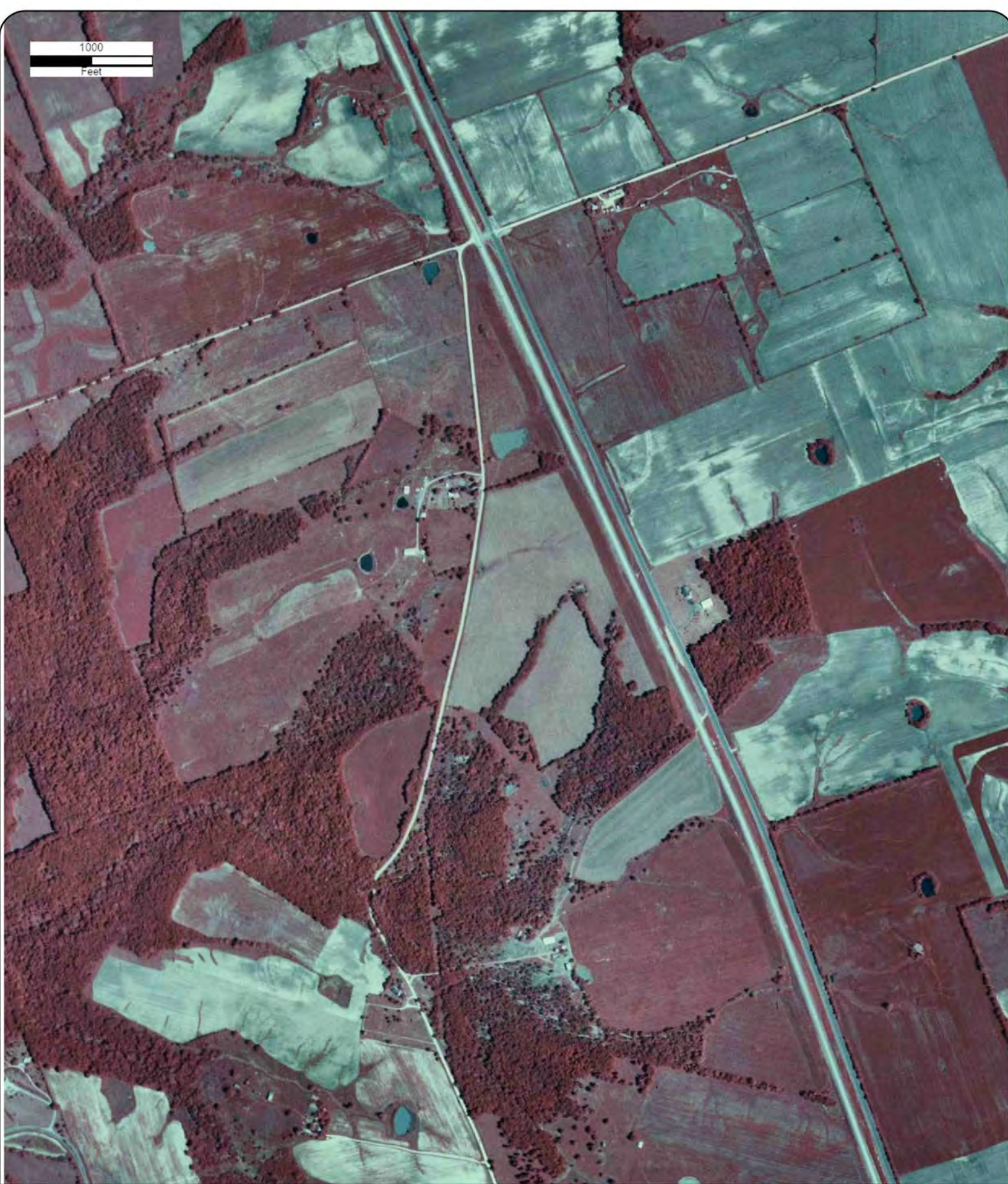


Year: 1995
Source: USGS
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772

1000
Feet



Year: 1985
Source: USGS
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772

1000
Feet



Year: 1974
Source: USGS
Scale: 1" = 1000'
Comment:

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772

1000
Feet

TM-2CC-170

TM-2CC-169

Year: 1963
Source: ASCS
Scale: 1" = 1000'
Comment: Photo Index - Best Available

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772





Year: 1956
Source: AMS
Scale: 1" = 1000'
Comment: Best Copy Available

Address: Ave of the Saints, Silex, MO
Approx Center: -90.98073151,39.16074591

Order No: 26081300772

1000
Feet



Year: 1941 Address: Ave of the Saints, Silex, MO
Source: ASCS Approx Center: -90.98073151,39.16074591
Scale: 1" = 1000'
Comment: Photo Index - Best Available

Order No: 26081300772

APPENDIX F

HISTORICAL TOPOGRAPHIC MAPS



TOPOGRAPHIC MAPS

Project Property: Millcreek BESS
Ave of the Saints
Silex MO None
Project No: None
Requested By: Civil & Environmental Consultants, Inc.
Order No: 26081300772
Date Completed: August 14, 2026

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
2021	7.5
2017	7.5
2014	7.5
2011	7.5
1984	7.5
1975	7.5
1942	15
1934	15

Topographic Map Symbolology 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](#)

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.

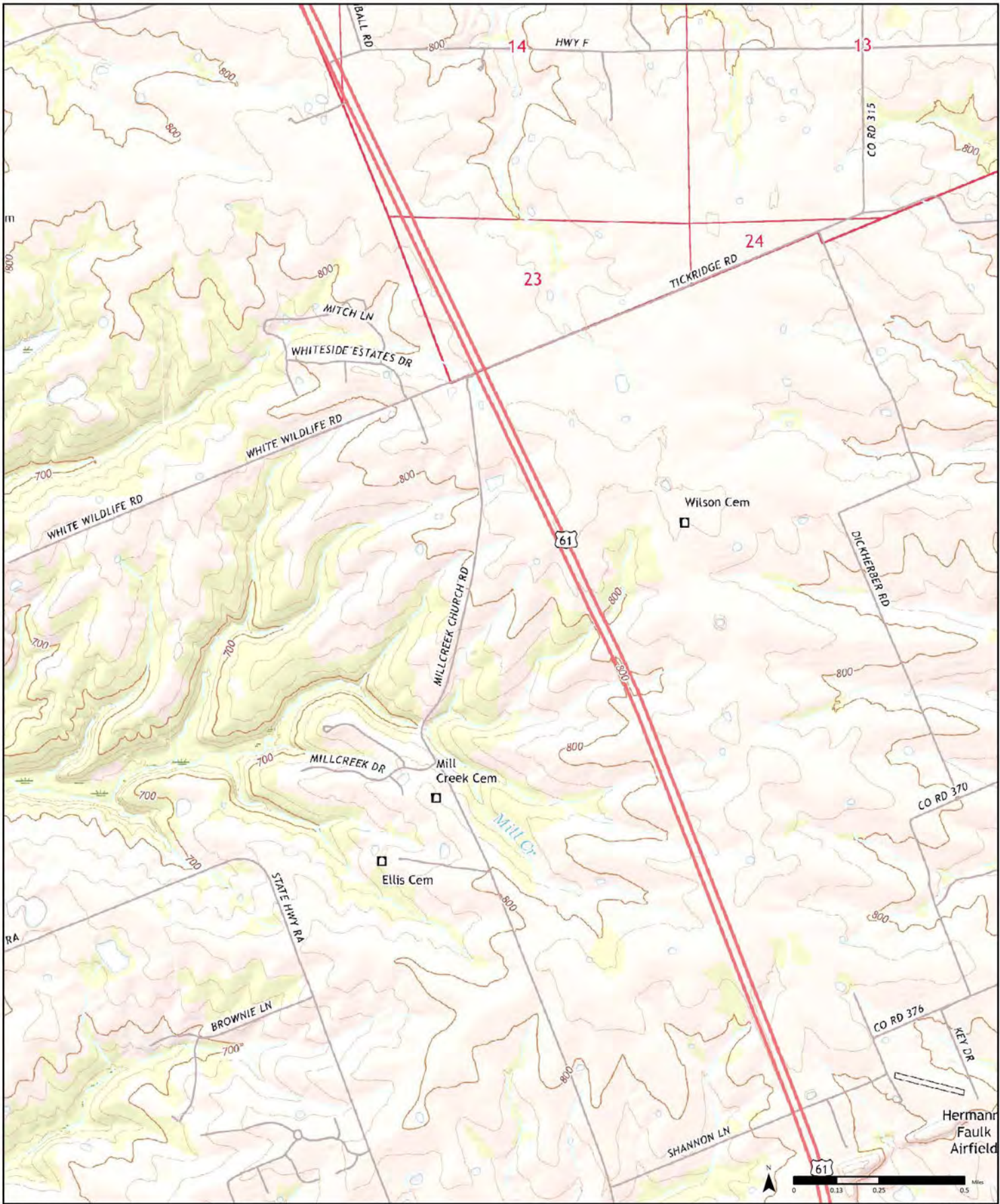
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc.(in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS', using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

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1.866.517.5204 | info@erisinfo.com | erisinfo.com

Attachment A



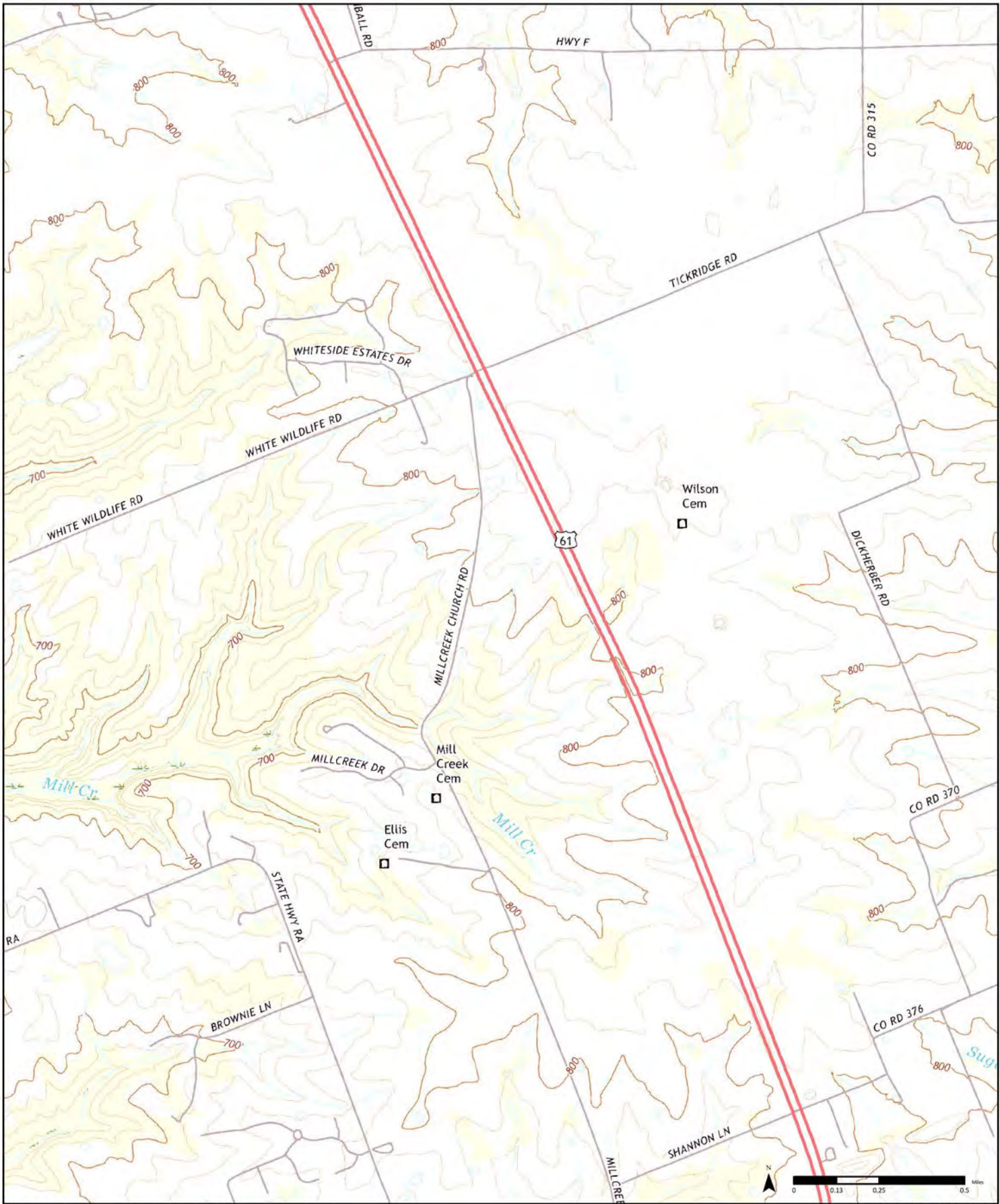
2021

Order No. 26081300772



Available Quadrangle(s): Auburn, MO
Eolia, MO

Source: USGS 7.5 Minute Topographic Map



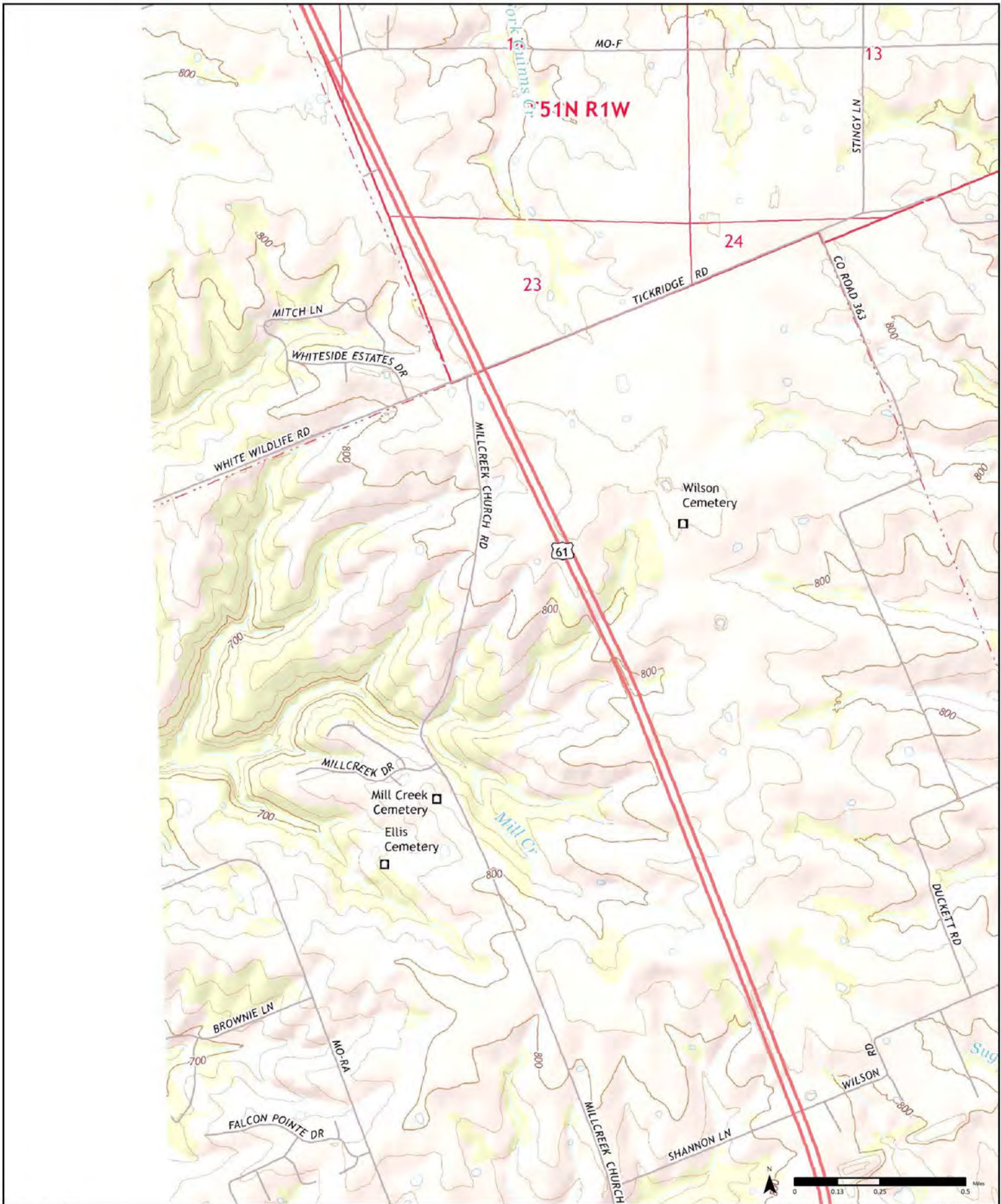
2017

Order No. 26081300772



Available Quadrangle(s): Auburn, MO
Eolia, MO

Source: USGS 7.5 Minute Topographic Map



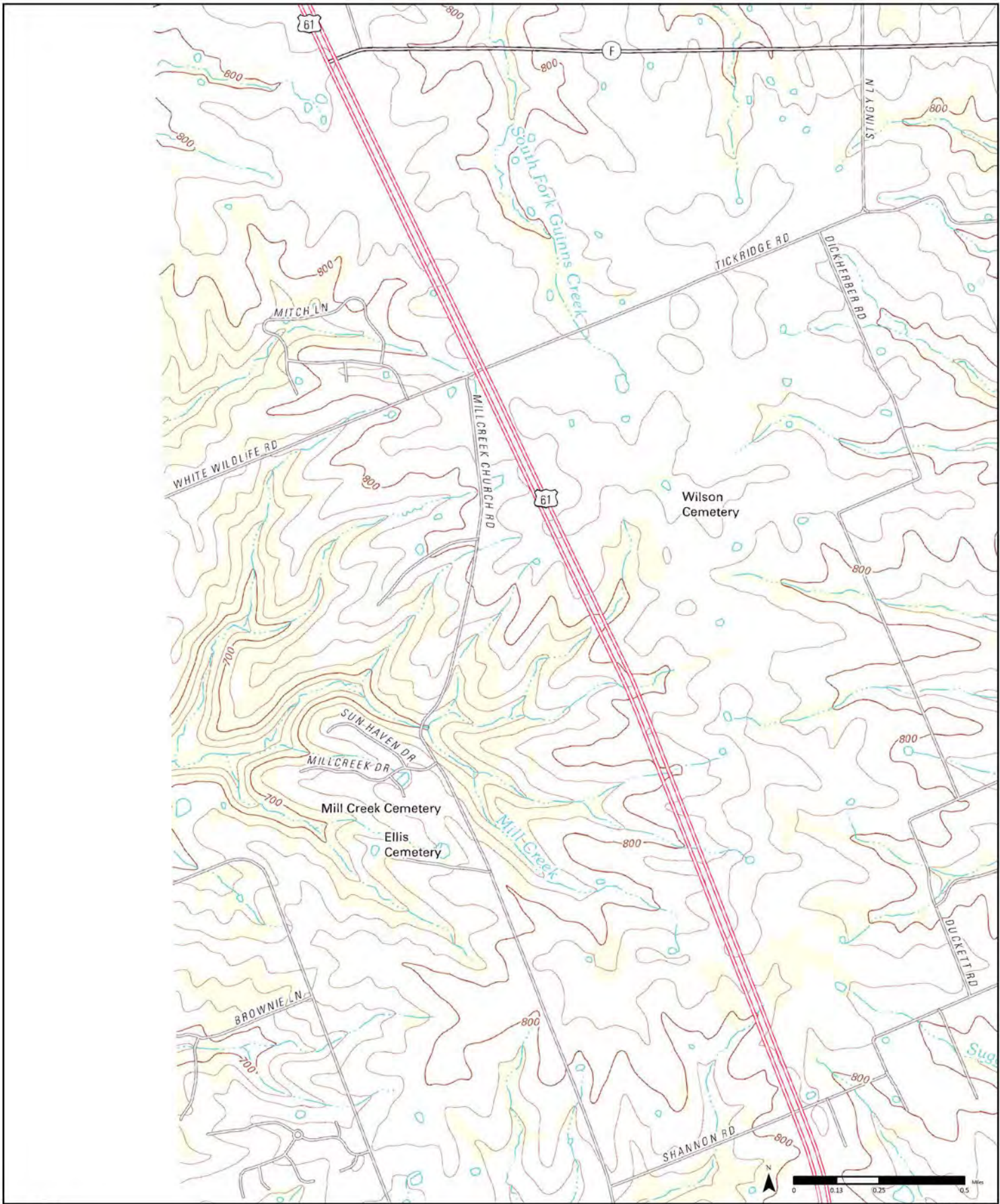
2014

Order No. 26081300772



Available Quadrangle(s): Auburn, MO

Source: USGS 7.5 Minute Topographic Map



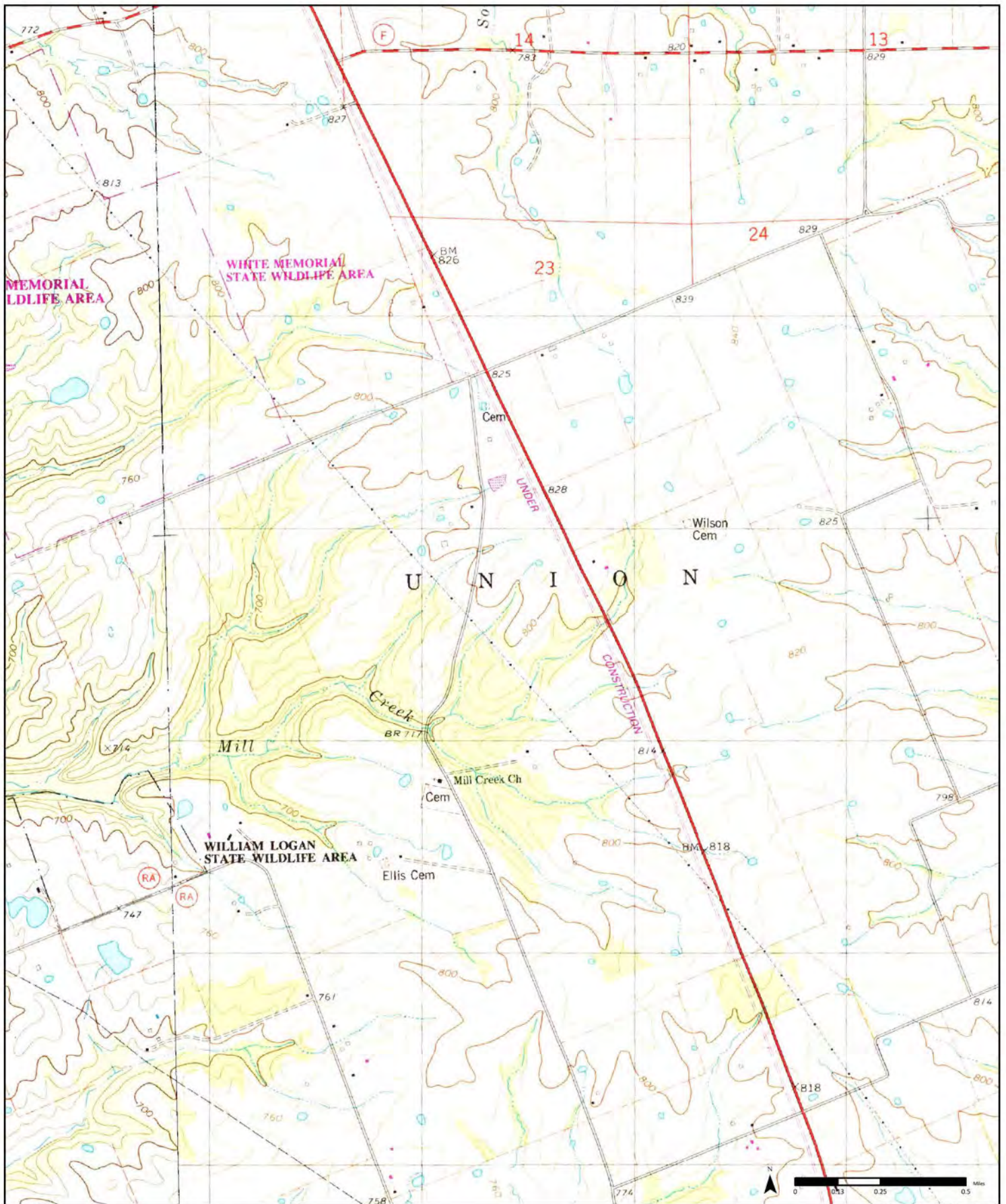
2011

Order No. 26081300772



Available Quadrangle(s): Auburn, MO

Source: USGS 7.5 Minute Topographic Map



1984

(1-1984) Aerial Photo Year: 1982
Photo Revision Year: 1984

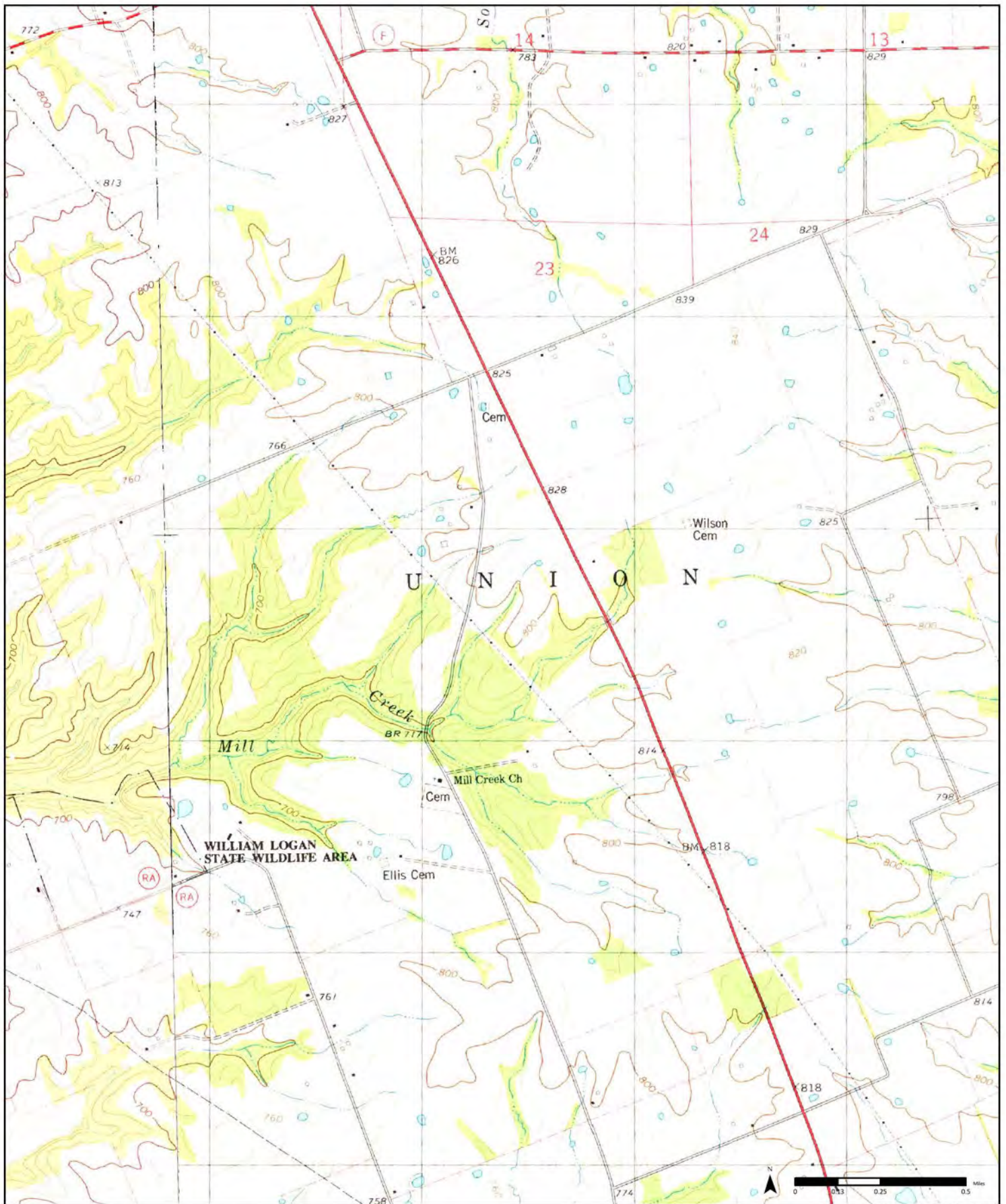
(2-1984) Aerial Photo Year: 1982
Photo Revision Year: 1984

Order No. 26081300772



Available Quadrangle(s): Auburn, MO(1-1984)
Eolia, MO(2-1984)

Attachment A



1975

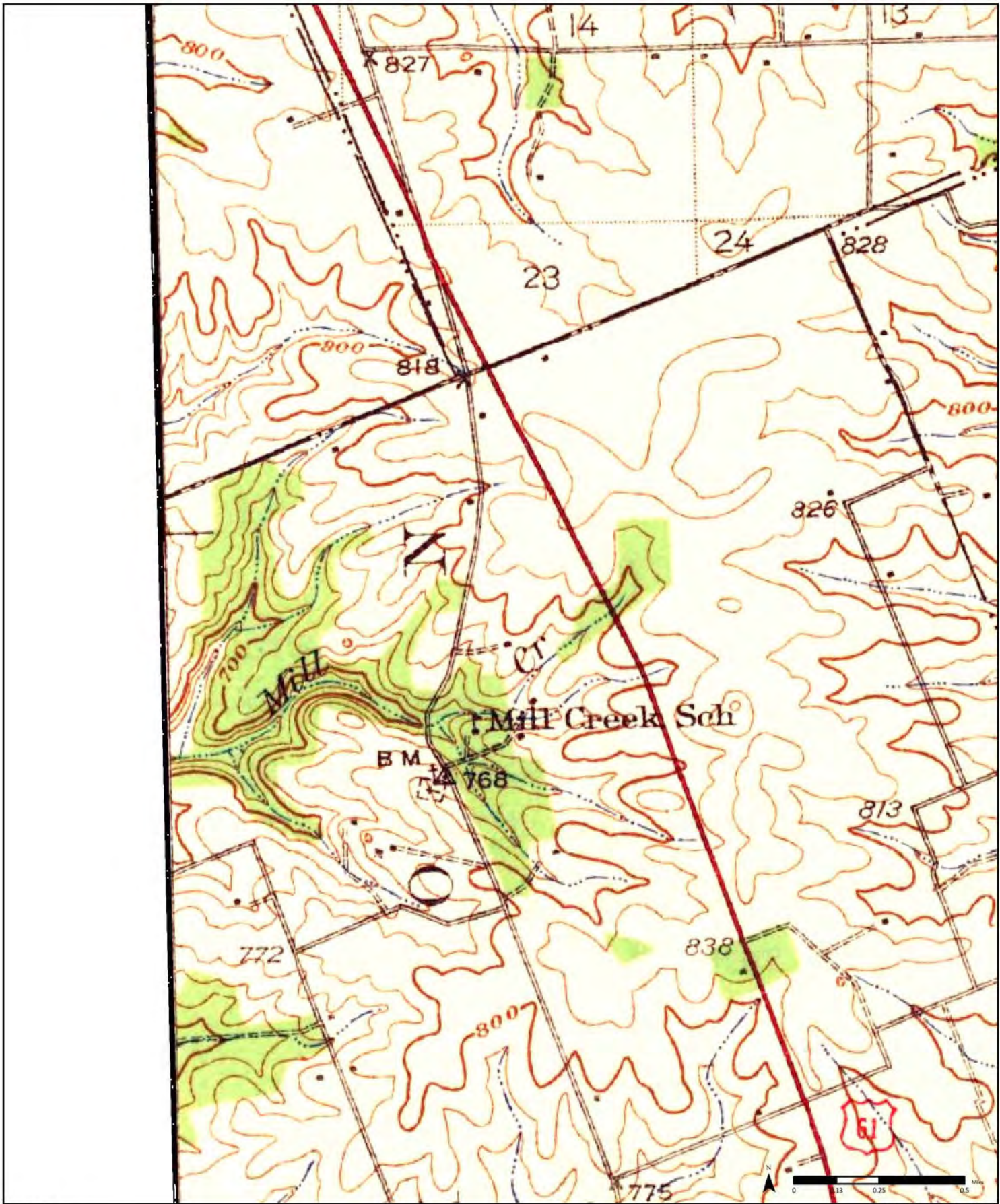
(1-1975)
Aerial Photo Year: 1974

(2-1975)
Aerial Photo Year: 1974

Order No. 26081300772



Available Quadrangle(s): Auburn, MO (1-1975)
Eolia, MO (2-1975)



1942

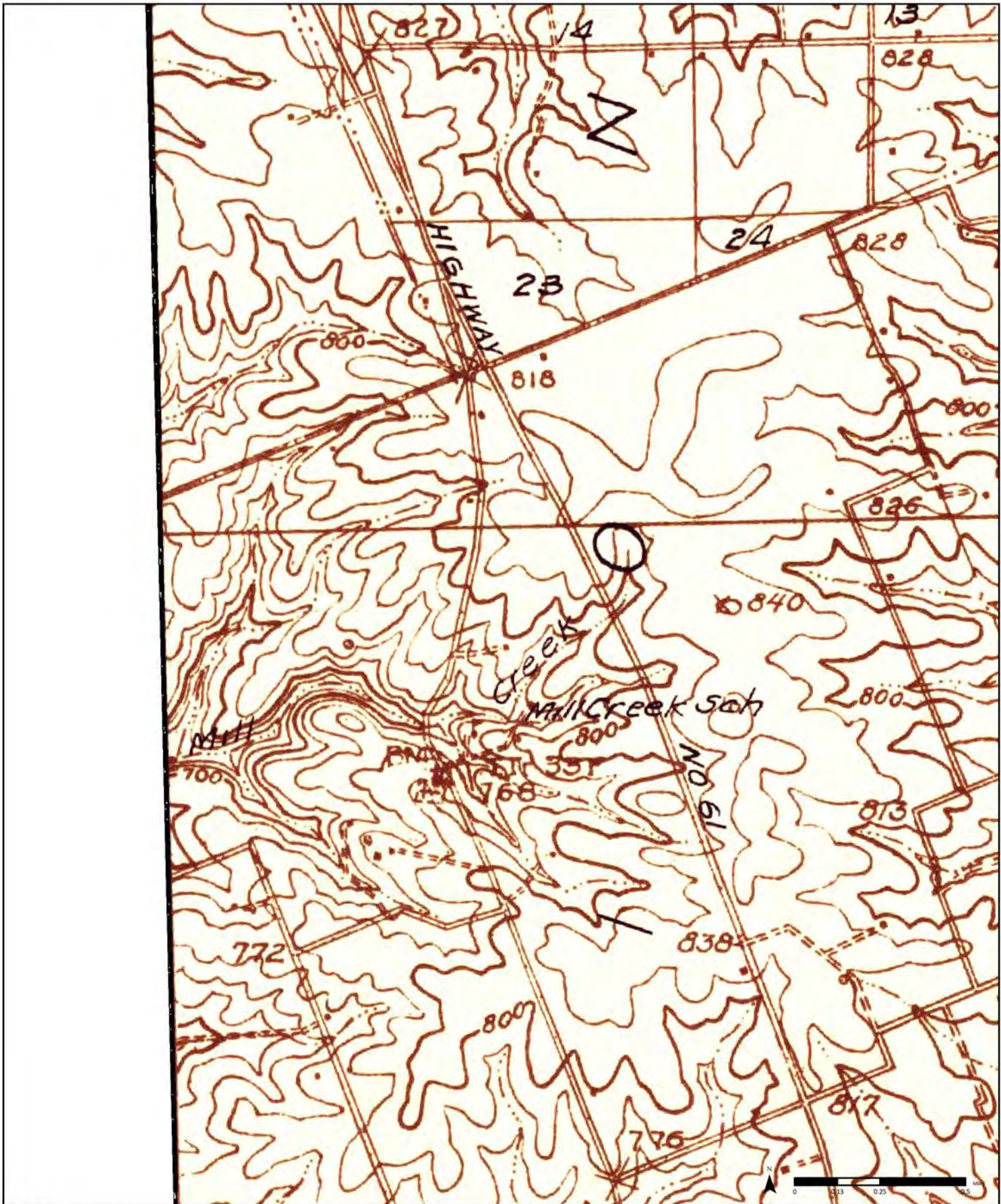
Order No. 26081300772



Available Quadrangle(s): Elsberry, MO

Source: USGS 15 Minute Topographic Map





1934

Order No. 26081300772



Available Quadrangle(s): Elsberry, MO

APPENDIX G

PROFESSIONAL RESUMES

Tommy J. Goodwin JR, P.E.

Project Consultant



7 YEARS OF EXPERIENCE

EDUCATION

B.S., Biological Science, Missouri S&T, 2014

B.S., Environmental Engineering, Missouri S&T, 2014

M.S., Environmental Engineering, Missouri S&T, 2016

Mr. Tommy Goodwin has been a practicing environmental engineer since 2014. He has extensive experience in Environmental Site Assessment (ESA) reporting, Spill Pollution, Controls, and Countermeasures (SPCC) reporting, Storm Water Pollution Prevention Plan (SWPPP) reporting, laboratory analytical data validation, water and groundwater quality monitoring, and EPA Method 9 and Method 22 visual emission assessments. Tommy has performed field work and managed projects in multiple US states and Canadian provinces.

PROJECT EXPERIENCE

Environmental Due Diligence and Permitting

EaglePicher Technologies RCRA Permit, Eagle Picher Technologies, LLC, Joplin, MO

Role: Engineer

Updated the RCRA Permit and associated report attachments including: Sampling and Analysis Plan, Operations and Maintenance Plan, Soil Management Plan, Quality Assurance Project Plan, and figures for the Joplin EaglePicher facility.

MoTie SWPPPs, MoTie, Iron County, Missouri

Role: Engineer

Updated site specific and general NPDES permit SWPPPs to incorporate permit and BMP changes to two facilities.

Pheasants Forever Phase I, Pheasants Forever, Saline and Williamson Counties, Illinois

Role: Engineer

Performed a phase I environmental site assessment for a several thousand acre prior-mine site that had portions dating back over 100 years of operation.

Phase I Environmental Site Assessments, Various, Various*

Role: Engineer

Conducted on-site field investigations and prepared reports for several sites across the USA. Clients are not disclosed for confidentiality due to property transactions.

Phase II Environmental Site Assessments, Various, Various*

Role: Engineer

Conducted on-site field investigations and prepared reports for several sites across the USA. Installed temporary monitoring wells to collect soil and ground water samples. Clients are not disclosed for confidentiality due to property transactions.

EXPERTISE

Conducting and Planning Bird Nest Surveys

Conducting and Planning Bird Point Counts / Identifying Species

Conducting and Planning Ground Water Sampling

Conducting and Planning Surface Water Sampling

Performing EPA Data Validation for Ground Water Samples

Preparing Spill Pollution, Control, and Countermeasure Plans

Conducting and Planning Wetland Delineations

Conducting EPA Method 9 and 22 Visual Emission Inspections

Preparing Storm Water Pollution Prevention Plans

REGISTRATIONS

Professional Engineer

- MO 2019029539

CERTIFICATIONS

40-Hour Wetland Delineation Course, Richard Chinn

10-Hour OSHA Construction Safety (Occupational Safety & Health Administration), OSHA

40-Hour OSHA HAZWOPER, Occupational Safety & Health Administration

MSHA Surface Miner, Mine Safety And Health Administration

First Aid, CPR, & AED, National Safety Council

Portable Nuclear Gauge Safety & US DOT HAZMAT Certification, Troxler Electronic Laboratories, Inc.

Approved Surveyor for Black Rails, US Fish & Wildlife Service



Civil & Environmental Consultants, Inc.

Attachment A

Tommy J. Goodwin JR, P.E.

Project Consultant

Data Validation for Laboratory Analytics, Various, Various States in the USA*

Role: Engineer

Performed Levels 2-4 data validation following EPA guidelines for organic, inorganic, and radioactive analytical results from various labs and for multiple states.

SWPPP Reports, Holcim Ste. Genevieve Cement Plant, Holcim Ste. Genevieve Cement Plant

Role: Engineer

Performed site visits and prepared SWPPP reports for facility expansion projects at the Ste. Genevieve, MO LaFarge/Holcim facility.

SPCC Plan Updates, Enbridge, Enbridge*

Role: Engineer

Performed site visits and SPCC plan updates for multiple compressor stations in Arkansas, Missouri, Illinois, Indiana, and Ohio.

SWPPP Reports, Specialty Granules LLC, SGI LLC*

Role: Engineer

Performed site visits and prepared SWPPP reports for facility expansion projects at the Annapolis, MO SGI facility.

SPCC Plans, Targa, Targa*

Role: Engineer

Prepared new and updated existing SPCC plans for multiple Targa oil and gas facilities in Texas, Louisiana, and North Dakota.

** Work performed prior to joining CEC*

PROFESSIONAL AFFILIATIONS

Association of Environmental and Engineering Geologists

Missouri Birding Society / Audubon Society of Missouri

National Audubon Society

Webster Groves Nature Studies Society

Society of Wetland Scientists

PUBLICATIONS

Goodwin, T J. "Phytoforensics Tools: The degradation and detection of chlorinated solvents in integrated systems." Masters Theses. 2016

Beth Eckley, P.E.
Principal



21 YEARS OF EXPERIENCE

EDUCATION

B.S., Civil and Environmental Engineering,
Southern Illinois University-Carbondale, 2002

PROJECT EXPERIENCE

Due Diligence

Due Diligence with Environmental Compliance

Role: Manager, Associate

Conducted and assisted with environmental due diligence assessments including limited compliance reviews of facilities located throughout the United States. The wide range of operations assessed include: automotive parts manufacturer, floral assembly and manufacturer, image-guided medical device manufacturer, commercial properties, sterilization facility, botanical herb production, chemical truck terminal and maintenance facilities, flow meter manufacturing and assembly facilities, distribution warehouses, pet food and home and garden product manufacturer, sulfuric acid research and development facility, landfill gas to energy plant, multi-tenant office buildings, gas station and convenience stores, supermarkets, silica processing and mine, crane rental facility, die cast manufacturer, medical facilities, ethanol manufacturing facility, and chemical management services facility. The purpose of these reports was to identify environmental concerns that could result in potentially significant liabilities, identify areas of noncompliance with current and future applicable environmental regulations, estimate the present value of identified environmental liabilities and make recommendations on ways to reduce such liabilities.

Environmental Compliance

Multi-Media Environmental Compliance Assistance, Portable Gas Detection Manufacturer, Lincolnshire, IL*

Role: Senior Manager

Provided annual multi-media environmental compliance support including air, EPCRA (Tier II, TRI) and waste. Routine assistance included the preparation and submission of annual air emissions reports, development and maintaining a monthly air emissions recordkeeping spreadsheet, Tier II and TRI chemical inventory reports and annual state waste reporting. Other projects included air construction permit applications and air permit operating permit renewals for a synthetic minor source.

Environmental Compliance Auditing and Assistance, Fortune 200 multi-national company, Europe, Asia and Latin America*

Role: Senior Manager

Managed a variety of services for a Fortune 200 multi-national company to assist its corporate and plant staffs to attain and maintain compliance with applicable environmental regulations primarily throughout Europe, Asia and Latin America. These services include: • Conducting environmental compliance assessments of select facilities (approx. 10-20 per year): • Identification and preparation of "good

EXPERTISE

Due Diligence

EPCRA (Tier II, TRI) Compliance and Reporting

Spill Prevention Control and Countermeasure (SPCC) Plan

Stormwater Permitting/Stormwater Pollution Prevention Plan (SWPPP)

Air Permitting and Compliance

Environmental Compliance Auditing

Environmental Permit Transfers

REGISTRATIONS

Professional Engineer

- MO 2008019538
- KY 33071
- IL 062069373

CERTIFICATIONS

40-Hour Hazardous Waste Operators and Emergency Response (129 CFR 1910.120)



Civil & Environmental Consultants, Inc.

Attachment A

Beth Eckley, P.E.

Principal

environmental management practices” which provide a corporate baseline for environmental compliance, regardless of local regulations; • Preparation of regulatory documents as required to assist plant personnel; • Preparation and presentation of annual environmental webinars for all facilities in Europe, China, and India. These services and deliverables have been provided in a uniform, consistent high quality timely manner as a result of a project management system which utilizes a single senior point-of-contact, a minimum number of key regional managers, and a written procedures manual based on the client's specific requirements. Manage domestic and international environmental due diligence for various manufacturing facilities. In addition, management of environmental compliance auditing efforts for existing manufacturing facilities in the Americas, China, Latin America, Europe and Asia.

Permit Transfers, Various Manufacturing Companies

Role: Senior Manager

Assisted in environmental permit transfers for numerous adhesive, plastic and metal manufacturing facilities, plywood manufacturing facilities and paperboard manufacturing facilities throughout the United States. Projects included coordination with legal personnel and regulatory officials to transition various air, water, waste, wastewater and transportation permits between companies.

Air Permitting

Routine Air Reporting Assistance, Various Manufacturing Facilities

Role: Senior Manager

Prepared annual emission reports and annual air permit compliance certifications for facilities in Illinois, Iowa, Kentucky, Missouri, Texas, Tennessee and Wisconsin covering a broad range of industrial sectors including die casting, pharmaceutical, paper and web coating, research centers, gypsum wallboard manufacturing, auto body part manufacturing, food flavoring, foundry operations and secondary aluminum operations. Projects involved identifying emission sources, determination of emission factors, emission calculations and submittal of final report package.

Air Permit Assistance, Various Manufacturing Facilities

Role: Senior Manager

Prepared air construction and operating permit applications and renewals for true minor sources, synthetic minor sources and Title V sources establishments engaged in manufacturing of metal cans, printing inks, gypsum wallboard facilities, corrugated cardboard boxes, aerospace, pharmaceutical, metal sheets, food flavoring. Projects included in depth understanding of new and existing processes, individual state requirements, development of emission factors and calculations, proposing emission limitations that would optimize plant operations, submittal of final permit provisions.

Railcar Maintenance and Cleaning , GA, TX*

Role: Senior Manager

Prepared air construction and operating permit renewals for synthetic minor sources and Title V sources. Projects included in depth understanding of new and existing processes, individual state requirements, development of emission factors, development of facility-wide and project specific emission calculations, proposing emission limitations that would optimize plant operations, and submittal of final permit provisions.

EPCRA

Routine EPCRA (Tier II and TRI) Chemical Inventory Reporting, Various Manufacturing Facilities*

Role: Senior Manager

Prepared and assisted with the preparation of over 200 routine Tier II and TRI reports in the following industries: - Adhesive/Sealant manufacturing; - Fluid and metering pump manufacturing; - Aerospace metal working and fabrication; - Paper and web coating; - Die Casting; - Tractor Trailer manufacturing; - Metal foundries; and - General metal machining and manufacturing. Routine reporting involved comprehensive understanding of material usage and process descriptions. Tier II reporting included the preparation of chemical inventories, Safety Data Sheet hazard evaluations, and preparation of state and local Tier II reports in over 20 states. TRI reporting included the preparation of detailed TRI threshold determinations and release calculations and the preparation and submission of all applicable Form R/A reports.

Corporate Tier II Training , Food and Beverage Container Manufacturer*

Role: Senior Manager

Beth Eckley, P.E.

Principal

Developed state specific Tier II training material for a food and beverage container manufacturer. The purpose of the training material was to be implemented by the corporate level and presented to all manufacturing facilities to educate facility personnel on the purpose of Tier II reporting, provide guidance on the process of developing a chemical inventory, assessing chemical hazards, determining if Tier II reporting is required, and preparing and submitting Tier II reports including any state specific requirements of reporting thresholds.

SPCC

SPCC Plan Preparation and Certification, Various Manufacturing Facilities*

Role: Senior Manager

Prepared SPCC plans for a variety of industrial facilities. Projects involved comprehensive understanding of oil material storage, usage and process descriptions, applicability threshold determinations, spill response procedures and application of the oil prevention pollution regulations to individual facilities. Industrial facility types include: communication services provider/data centers, food manufacturing, aluminum smelting, automotive component manufacturing, agricultural research, hydraulic component manufacturing, filter manufacturing, metal container manufacturing for the food and beverage industry.

Corporate SPCC Training, Communication Services Provider, Various locations throughout the US*

Role: Senior Manager

Developed corporate SPCC training material to be incorporated into the companies mandatory training program for new hires and annual refresher training. The training material included regulatory background information on 40 CFR 112 as well as facility specific spill prevention, control and countermeasures along with local personnel and agency contact information.

Stormwater

Stormwater Permitting and Compliance, Various Manufacturing Facilities*

Role: Senior Manager

Prepared Notice of Intents (NOIs) and SWPPPs for facilities conducting automotive industry component manufacturing, paperboard manufacturing, liquid smoke manufacturing, plastic injection molding, hydraulic component manufacturing, filter manufacturing, metal container manufacturing for the food and beverage industry.

Site Specific National Pollutant Discharge Elimination System (NPDES) Permitting , KY, IL*

Role: Senior Manager

Composed a site specific NPDES permit application for facilities located in Kentucky and Illinois covering industrial sectors that included mining or quarrying, processing crushed and broken limestone and chemical manufacturing.

** Work performed prior to joining CEC*

TRAINING

ASTM - Phase I Environmental Site Assessment Standards for Commercial Real Estate (ASTM E1527-21)