



**Song Sparrow Solar
Phase I Environmental Site
Assessment**

June 22, 2023

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Sign-off Sheet and Signatures of Environmental Professionals

This document entitled Song Sparrow Solar Phase I Environmental Site Assessment (Report) was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Clearway Energy Group, LLC (the "Client"). The conclusions in the Report are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

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I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of Title 40 of the Code of Federal Regulations, Part 312, (40 CFR 312). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



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Abbreviations

AAI	All Appropriate Inquiries
AST	Aboveground Storage Tank
ASTM	ASTM International
AUL	Activity Use Limitation
BER	Business Environmental Risk
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
EDR	Environmental Database Resources
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ft amsl	Feet above mean sea level
HREC	Historical Recognized Environmental Conditions
LUST	Leaking Underground Storage Boiler
PCBs	Polychlorinated Biphenyls
REC	Recognized Environmental Conditions
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VOCs	Volatile Organic Compounds



1.0 EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) report of the property called Song Sparrow Solar (the “Subject Property”), on behalf of Clearway Energy Group, LLC (the “Client”). The work was performed according to Stantec’s proposal and terms and conditions dated January 23rd, 2023, and accepted by the Client on January 25th, 2023. Clearway Energy Group, LLC (the “User”) has been designated as the User of this report. The intended use of this Phase I ESA is for due diligence in support of the proposed Song Sparrow Solar Project.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) Designation E1527-21, and All Appropriate Inquiries (AAI) as defined by the United States Environmental Protection Agency (EPA) in Title 40 of the Code of Federal Regulations, Part 312 (40 CFR 312), except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described in Section 2.3.

The Subject Property consists of approximately 1,405.4 acres of agricultural, forested, and dispersed residential land, located in Ballard County, Kentucky. Adjoining properties, as well as the nearby surrounding area, are mainly agricultural. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. Details for the parcels located within the Property is attached in Appendix E. Photographs taken during the site reconnaissance visit are provided in Appendix A.

The following items of note were identified during this ESA:

- Improperly disposed household waste in piles across the entire project area.
- Soil staining in barn where heavy equipment is stored. Some king of petroleum staining.
- Several large silos across the Subject Property. Several still in use and others rusted and broken down.
- Two 500-gallon ASTs, contents unknown. No staining observed.
- Five 50-gallon drums, no staining or odor observed.
- Two rusted petroleum ASTs, no staining or odor observed.
- Transformers across the Subject Property, PCB assumed.
- Large, rusted ASTs near one of the silo locations. No staining or stressed vegetation observed.
- Barn with large farm equipment, no soil staining observed at this location.

Stantec has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of Song Sparrow Solar, or the “Subject Property”. Any exceptions to, or deletions from, this



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practice are described in Section 2.3 of this report. This assessment has revealed no recognized environmental conditions (RECs), Controlled RECs (CRECs), or significant data gaps in connection with the Subject Property. No further investigation is recommended at this time.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.



2.0 INTRODUCTION

The objective of this Phase I ESA was to perform AAI into the past ownership and uses of the Subject Property consistent with good commercial or customary practice as outlined by ASTM International (ASTM) in “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,” Designation E1527-21. “All Appropriate Inquiries” is the process for evaluating a property’s environmental conditions for the purpose of qualifying for landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312). The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions (“RECs”) of the Subject Property.

The ASTM E1527-21 standard indicates that the goal of the Phase I ESA is to identify RECs, as well as historical recognized environmental conditions (“HRECs”) and controlled recognized environmental conditions (“CRECs”) that may exist at a property. The term “recognized environmental conditions” is defined as:

- 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.

ASTM defines a “HREC” as 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 and meets current unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., activity and use limitations or other property use limitations). A HREC is not considered a REC.

ASTM defines a “CREC” as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The release of hazardous substances or petroleum products is, however, not a REC if that presence is a *de minimis* condition. *De minimis* conditions are minor releases that generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of



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governmental agencies. ASTM also considers the potential for a business environmental risk (BER), defined as a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the Subject Property, not necessarily limited to those environmental issues required to be investigated by the ASTM standard. Consideration of BERs may involve addressing one or more ASTM non-scope considerations.

This Phase I ESA was conducted in accordance with our proposal to Clearway Energy Group, LLC dated January 23rd, 2023, and Client's authorization on January 25th, 2023. The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Subject Property, interviews with key individuals, and review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the Subject Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform an independent evaluation of the purchase or lease price of the Subject Property and its relationship to current fair market value. The conclusions presented in this Phase I ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-21 notes that the availability of record information varies from source to source. The User or Environmental Professional (EP) is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

1. Information that is publicly available;
2. Information that is obtainable from its source within reasonable time and cost constraints; and
3. Information that is practicably reviewable.

2.1 SUBJECT PROPERTY DESCRIPTION

The Subject Property consists of approximately 1,405.4 acres of agricultural, forested and dispersed residential land located in Ballard County, Kentucky. Adjoining properties, as well as the nearby surrounding area, are mainly agricultural. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. Details for the parcels located within the Property is attached in Appendix E. Photographs taken during the site reconnaissance visit are provided in Appendix A.

2.2 SPECIAL TERMS, CONDITIONS, AND ADDITIONAL ASSUMPTIONS

There were no special terms, conditions, or additional assumptions associated with this Phase I ESA.



2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Subject Property.

This report provides an evaluation of selected environmental conditions associated with the Subject Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information received from others.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the Subject Property's environmental condition.

The client did not provide or contract Stantec to provide recorded title records or search results for environmental liens or activity and use limitations encumbering the property or in connection with the Subject Property. Stantec did not obtain historical records that document the property history in 5-year intervals, and this resulted in data gaps. Although this represents data gaps, these data gaps are not considered to impact the EPs ability to identify RECs unless stated as such. Based on the information obtained during the course of this ESA and general knowledge of development at and near the Subject Property, the absence of this information did not affect the ability of the EPs to identify RECs, HRECs, CRECs, or *de minimis* conditions.

This report has been prepared for the exclusive use of the client identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The conclusions are based on the conditions encountered at the Subject Property by Stantec at the time the work was conducted.

As the purpose of this report is to identify Subject Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Subject Property is beyond the scope of this assessment.



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The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Subject Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of Federal, state, provincial or local governmental agencies.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

2.4 PERSONNEL QUALIFICATIONS

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an EP. The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in Appendix B.



3.0 USER-PROVIDED INFORMATION

ASTM E1527-21 describe responsibilities of the User to complete certain tasks in connection with the performance of “All Appropriate Inquiries” into the Subject Property. The ASTM standard requires that the EP request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or *de minimis* conditions in connection with the Subject Property. Towards that end, Stantec requested that the User provide the following documents and information:

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire and/or Interview	Yes	Ms. Sherwood is unaware of any Environmental cleanup liens or any activity and land use limitations on the Subject Property. Mr. Davis is unaware of any chemicals being stored on the property. Mr. Baldwin is unaware of any hazardous materials or petroleum products stored on the property. No RECs, CRECs, HRECs, or <i>de minimis</i> conditions reported.
Environmental Liens or Activity and Use Limitations (AUL)	No	No Environmental Liens or AULs were provided.
Previous Environmental Permits or Reports Provided by User	Yes	The user provided the following reports on the Subject Property: <ul style="list-style-type: none"> • Critical Environmental issues Analysis, AECOM, 2021 • Phase I ESA, Terracon, 2021 • Wetland Delineation Report, Terracon, 2021
Purpose of the Phase I ESA	Yes	The intended use of the Phase I is to assist in the due diligence for commercial development for the Song Sparrow Solar Project.

Stantec forwarded the ASTM recommended User Questionnaire to Jennifer Sherwood of Clearway Energy Group. The completed User Questionnaire returned to us by Ms. Sherwood and Dated June 15, 2023 is included in Appendix C.

The User provided information is included in Appendix C.



4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Subject Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Subject Property. During the review of historical records, Stantec attempted to identify uses of the Subject Property from the present to the first developed use of the Subject Property. Stantec's research included the reasonably ascertainable and useful records described in this section.

4.1 PHYSICAL SETTING

A summary of the physical setting of the Subject Property is provided in the table below with additional details in the following subsections.

Topography:	Stantec reviewed the Subject Property on the 2019 United States Geological Service (USGS) Topographic Quadrangles, 1:24,000 scale. The Subject Property is generally sloped towards Humphrey Creek and Humphrey Branch. The elevation ranges from approximately 450 feet above mean sea level (ft amsl) at the highest point, to approximately 400 ft amsl at the lowest point (EDR, 2023).
Soil/Bedrock Data:	The predominant soil series within the Subject Property is Grenada silt loam, 2 to 6 percent slopes, eroded (18.9%); Grenada-Purchase complex, 6 to 12 percent slopes, severely eroded (12%); and Falaya-Collins complex, 0 to 2 percent slopes, occasionally flooded (11.9%). Bedrock in the area consists of continental deposits and loess, undifferentiated from the tertiary to quaternary era (Noger, 1998).
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	Groundwater is expected to flow downgradient towards Humphrey Creek and Humphrey Branch. Depth to groundwater is occurs over 13 feet bgs (EDR, 2023).
NOTE: Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.	

4.1.1 Subject Property Topography and Surface Water Flow

There is approximately 40 feet of topographic relief on the Subject Property. Overall, the Subject Property is relatively flat with elevation of approximately 450 ft amsl at the highest point to 400 ft amsl at the lowest point. The topography is sloped downwards towards Humphrey Creek watershed. Based on the



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topography, surface water on the Subject Property infiltrates the ground surface or flows overland into wetland and streams throughout the Subject Property.

4.1.2 Regional and Subject Property Geology

The Subject Property is located in the eastern portion of the Mississippi Embayment (Jackson Purchase) physiographic province of Kentucky. This region is typically less than 100 feet in local relief and is generally flat with many sloughs, ponds, and lakes (KGS 2012). The predominant soil series within the Project is Grenada silt loam, 2 to 6 percent slopes, eroded (18.9%); Grenada-Purchase complex, 6 to 12 percent slopes, severely eroded (12%); and Falaya-Collins complex, 0 to 2 percent slopes, occasionally flooded (11.9%).

4.1.3 Regional and Subject Property Hydrogeology

The shallow water table is often a subdued expression of surface topography. Shallow groundwater generally flows from areas of groundwater recharge, such as hills and broad uplands, to areas of groundwater discharge, such as wetlands, rivers, and lakes. Based on the local surface topography, local shallow groundwater is expected to flow towards Humphrey Creek in the middle of the Subject Property. Groundwater on the east of the Subject Property will flow into a tributary of Humphrey Branch. Other man-made features such as wells, roads, filled areas, buried utility lines and sewers, and drainage ditches may alter the natural shallow groundwater flow direction. The depth to shallow groundwater is estimated to be over 13 feet bgs.

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from Environmental Data Resources, Inc. (EDR), a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

Stantec evaluated the information listed within the database relative to potential impact to the Subject Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Subject Property. As described in 4.1.3, the inferred shallow groundwater flow direction is likely to be in the direction of Humphrey Creek or Humphrey Branch. Observations about the Subject Property and adjoining properties made during the Subject Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Subject Property

The Subject Property was identified in the environmental database report.



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The listing is a spill report from September 20, 2011. This case was staging and burning of natural disaster debris. There was a low level of particulate matter in the air (PM2.5), and it has since dispersed. This is not considered a REC.

4.2.2 Listings for Adjoining and Nearby Sites with Potential to Impact Subject Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjoining and nearby sites to pose a REC, CREC, or HREC for the Subject Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Subject Property from an adjoining or nearby site, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC]. ASTM E2600-22 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM, 2022) was used as the basis for a Tier I Vapor Encroachment Screen (VES) for the Subject Property. This included evaluation of release sites within 1/10 mile for Petroleum Hydrocarbon releases, and 1/3 mile for volatile and semi-volatile organic compound (VOC, SVOC), plus other potential vapor phase contaminants (such as mercury).

No adjoining or nearby sites with potential impact to the Subject Property were identified.

The remaining listings in the database search report, including listings of Orphan/Unlocated Sites provided in Appendix D, do not constitute a REC for the Subject Property. There are two orphan sites listed in the EDR report. Stantec located both sites as northwest of the Subject Property. These sites are both asbestos listings and not located on the Subject Property, they are not considered RECs.

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Subject Property use and/or indications of RECs in connection with the Subject Property:

4.3.1 Local Health Department

Agency Name, Contact Information, Date	Finding
Ballard County Health Center (270) 665-5432 March 22, 2023	Stantec contacted the Ballard County Health Department about information they may have on the Subject Property. No response has been received at the time of this report submission. If pertinent information is received, it will be forwarded to the Client.



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4.3.2 Fire Department

Agency Name, Contact Information, Date	Finding
Barlow Fire Department (270) 334-3641 March 22, 2023	Stantec contacted the Barlow Fire Department in regards to any information they may have on the Subject Property. No response has been received at the time of this report submission. If pertinent information is received, it will be forwarded to the Client.

4.4 HISTORICAL RECORDS REVIEW

4.4.1 Land Title Records/Deeds

Land title records, deeds, environmental liens, and activity and use limitation documentation was not provided by the User, and public records were not searched by Stantec.

4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by Environmental Data Resources, Inc. (EDR). The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs. Copies of the historical aerial photographs are provided in Appendix E.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1950	1" =1000'	The main land use for the area is agriculture. Small county roads cross the Subject Property and surrounding farmland. There are scattered patches of trees throughout. There are a few homes visible on the aerial map, but the area is mostly undeveloped.
1952	1" =1000'	Land use remains unchanged. The only visible change is a large Right of way for either a pipeline or a transmission line is visible on the west side of the Subject Property.
1974	1" =1000'	Several houses are built on and around the Subject Property. The main land use remains agricultural, interspersed with small patches of forest.
1978	1" =1000'	Half of the Subject Property has no coverage. There is no significant change from the previous aerial maps on the half with coverage.
1982-1983	1" =1000'	The land use continues to be agricultural and dispersed residential. There are no major changes to the Subject Property.
1998	1" =1000'	The land use continues to be agricultural and dispersed residential. There are no major changes to the Subject Property



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Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
2008	1" =1000'	Some of the smaller forested areas have been cleared for agricultural land across the Subject Property.
2012	1" =1000'	Several new houses are visible from the aerial maps. Smaller forested areas have been cleared for larger agricultural fields.
2016	1" =1000'	The land use continues to be agricultural and dispersed residential. There are no major changes to the Subject Property
2020	1" =1000'	The land use continues to be agricultural and dispersed residential. There are no major changes to the Subject Property

The EDR Aerial Photo Decade Package, Inquiry #7245006.8, February 08, 2023

No RECs were noted during the review of the historical aerial photographs.

4.4.3 City Directories

Stantec retained a third party to research available city directories for the Subject Property and adjoining and nearby properties, in approximately five-year intervals. Copies of the city directory listings are provided in Appendix E.

The following is a summary of Stantec's review of the city directory listings:

Subject/Adjoining Properties	Year	Listed Occupants
4577 Gage Road	1995	Russell, Fain L
155 Davis Road	1995	Ballard, James B
4577 Gage Road	2000	Russell, Fain L
155 Davis Road	2000	Ballard, James B
997 Davis Road	2000	Stokes, Ronald C
1219 Davis Road	2014	Garnett, Charles
2659 Gage Road	2005	Russell, Pearl S
2972 Gage Road	2005	Russell, Frank
4577 Gage Road	2005	Russell, Fain L
155 Davis Road	2005	Ballard, James B
997 Davis Road	2005	Stokes, Ronald C
1219 Davis Road	2005	Garnett, Charles A
1444 Davis Road	2005	White, Ronald L
3578 Gage Road	2010	Waldridge, Christopher
4577 Gage Road	2010	Russell, Fain L
2659 Gage Road	2010	Russell, Pearl S



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Subject/Adjoining Properties	Year	Listed Occupants
2972 Gage Road	2010	Russell, Frank H
3444 Gage Road	2010	Elledge, William E
3838 Gage Road	2010	Meeks, Gordon
155 Davis Road	2010	Ballard, James B
997 Davis Road	2010	Stokes, Ronald C
1219 Davis Road	2010	Garnett, Charles A
1444 Davis Road	2010	White, Ronald L
2659 Gage Road	2014	Russell, Pearl S
3838 Gage Road	2014	Meeks, Catherine
2972 Gage Road	2014	Russell, Frank H
3578 Gage Road	2014	Waldridge, Christopher W
4577 Gage Road	2014	Russell, Fain L
3444 Gage Road	2014	Elledge, William E
155 Davis Road	2014	Kissel, Virginia L
997 Davis Road	2014	Stokes, Ronald C
1219 Davis Road	2014	Garnett, Charles A
1444 Davis Road	2014	White, Ronald L
2659 Gage Road	2017	Russell, Pearl S
2972 Gage Road	2017	Russell, Frank H
3578 Gage Road	2017	Waldridge, Christopher W
3838 Gage Road	2017	Meeks, Ryan N
4577 Gage Road	2017	Russell, Fain L
3444 Gage Road	2017	Mccoy, Dennis W
1273 Davis Road	2017	Jennings, Lee M

The EDR-City Directory Image Report, Inquiry #7245006.5, January 08, 2023.

No RECs were noted during the review of the City Directories.

4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Subject Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Subject Property and adjoining and nearby property uses.



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Stantec requested fire insurance maps from EDR; however, no coverage exists for the Subject Property. The Sanborn® Map Search Report (Inquiry #7245006.10s, February 07, 2023) indicating “no coverage” is presented in Appendix E.

4.4.5 Historical Topographic Maps

Stantec reviewed historical USGS 7.5-minute Topographic Maps of Blandville, La Center, Lovelaceville, and Heath (scale 1:24,000) as well as the USGS 15-minute Topographic Maps of Fancy Farm and La Center (scale 1:62500) to help identify past Subject Property and adjoining and nearby property usage and areas of potential environmental concern.

No RECs were noted during our review of the topographic maps. Copies of the historical maps are provided in Appendix E. The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1928	1" = 62,500'	Some of the Subject Property is unmapped. There are small roads throughout the area. Little Humphrey Creek and Humphrey Creek are visible in the north. The largest community in the area appears to be Hinkleville.
1932	1" = 62,500'	The Subject Property remains unchanged from the previous topographic map. Ceredo Road is depicted as a secondary highway.
1951, 1954	1" = 24,000'	Small ponds and lakes are visible throughout the area on the topographic map. A pipeline is visible in the middle of the Subject Property. There appears to be no other major changes.
1951, 1952, 1954	1" = 24,000'	Small ponds and lakes are visible throughout the area on the topo map. There seems to be no other major changes. Several new dirt roads that run through farmland are visible in the east of the Subject Property.
1952	1" = 62,500'	The Subject Property is partially unmapped. There are no significant changes in the mapped area from the previous topographic map.
1954	1" = 24,000'	There are no significant changes to the Subject Property.
1975, 1977, 1978	1" = 24,000'	A transmission line is visible running through the northwest of the Subject Property. A large reservoir is visible north of the project off Humphrey Branch creek.
2013	1" = 24,000'	A few new roads are visible on the map. None within the Subject Property. The Subject Property remains unchanged from the previous topographic map.
2016	1" = 24,000'	The length of Boulton Road has been decreased on the east side of the project. Randy Williams road in the North has also decreased in length stopping before crossing Humphrey Creek. No other visible changes have occurred in the Subject Property.
2019	1" = 24,000'	The Subject Property remains unchanged from the previous topographic map. No significant changes in the surrounding areas.



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EDR Historical Topographic Map Report, Inquiry Number 7245006.4, February 07, 2023.

No RECs were noted during the review of the topographic maps.

4.4.6 Other Historical Sources

No other historical sources were researched.



5.0 SITE RECONNAISSANCE

A visit to the Subject Property and its vicinity was conducted by Shane Kelley, Chris Knabel, Morgan Johnson, Marissa Angel, and Hannah Lieftring between February 20-24, 2023, and February 28 – March 3, 2023. Stantec was unaccompanied during the Subject Property visit. Figure 2 provides information about the Subject Property and adjoining sites and the location of potential areas of environmental concern. Detailed Subject Property features are shown on Figure 2. Photographs collected during the site reconnaissance are included in Appendix A.

5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Subject Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and Stantec utilized the following methodology to observe the Property:

- Traverse the outer Subject Property boundary
- Traverse transects across the Subject Property
- Traverse the periphery of all structures on the Subject Property
- Visually observe accessible interior areas expected to be used by occupants or the public maintenance and repair areas, utility areas, and a representative sample of occupied spaces

Weather conditions during the visit to the Subject Property were clear and partly cloudy to sunny. There were no weather-related Subject Property access restrictions encountered during the reconnaissance visit.

5.2 GENERAL DESCRIPTION

Subject Property and Area Description:	The Project is located approximately 13.8 miles southwest of Paducah in Ballard County, Kentucky. The Subject Property and general area consist of agricultural fields and dispersed residential houses.
Subject Property Operations:	The Subject Property is dispersed forested and residential with the majority of land use being agricultural fields.
Structures, Roads, Other Improvements:	There are approximately 16 structures and building throughout the Subject Property. These include residential houses, barns, and silos. There are a few driveways and small access roads on the Subject Property. No major structures or parking lots.
Subject Property Size (acres):	1,680.4 acres



PHASE I ENVIRONMENTAL SITE ASSESSMENT

Estimated % of Subject Property Covered by Buildings and/or Pavement:	Less than 1%
Observed Current Subject Property Use/Operations:	The Subject Property consists of agricultural fields, forested land and dispersed residential.
Observed Evidence of Past Subject Property Use(s):	The Subject Property consists of agricultural fields, forested land and dispersed residential.
Sewage Disposal Method (and age):	N/A
Potable Water Source:	N/A
Electric and Natural Gas Utilities:	N/A

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Subject Property reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14) with identified uses:	None observed
Drums/Totes/Intermediate Bulk Containers (≥ 5 gallons):	Near one of the silo locations on the west of the project, there are five, 50-gallon drums, contents unknown. There is no staining or odor observed. On the east of the Subject Property there are seven, 50-gallon lubricant drums being used as a property boundary. They are rusted with no staining or odor observed.
Strong, Pungent, or Noxious Odors:	None detected
Pools of Liquid:	None observed
Unidentified Substance Containers:	None observed
Polychlorinated biphenyl (PCB)-Containing Equipment:	None observed
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed



5.4 INTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of the building interiors at the Subject Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
Heating/Cooling Method:	None observed
Surface Stains or Corrosion:	None observed
Floor Drains and Sumps:	None observed
Other Interior Observations:	None observed

5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the Subject Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed
Stained Soil or Pavement:	There is a barn off Gage Road with a small amount of soil staining from the farm equipment parked there. It appears to be an petroleum spill. This staining is minor and considered <i>de minimis</i> .
Stressed Vegetation:	None observed
Waste Streams and Waste Collection Areas:	None observed
Solid Waste Disposal:	No areas indicative of solid waste disposal were observed.
Potential Areas of Fill Placement:	No mounds, piles, or depressions suggesting the placement of fill material were observed on the Subject Property.
Wastewater:	No exterior wastewater discharge was observed.
Stormwater:	None observed
Wells:	No wells were observed during the site visit. According to the EDR report, there are 98 listed water wells within a mile radius. Of those 98 listed water wells, 12 are within the Subject Property. There is also one oil and gas well west of the Subject Property within a one-mile radius.
Septic Systems:	No visible evidence of the existence of a septic system was observed.
Other Exterior Observations:	None



5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.
Other Underground Structures:	A gas pipeline ROW was observed on the far west of the Subject Property. After consulting NPMS, there are several pipelines in that area. All properties on both sides of Hinkleville Road contain pipelines.

5.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	There are several ASTs across the entire project. There was no staining or odor observed near any of them. There are four locations with silos, both active and inactive. Two rusted 500-gallon petroleum ASTs are in the middle of the Subject Property.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

5.8 ADJOINING PROPERTIES

5.8.1 Current Uses of Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining sites:

NORTH	The adjoining properties are agricultural, dispersed residential, and forested.
EAST	The adjoining properties are agricultural, dispersed residential, and forested.
SOUTH	The adjoining properties are agricultural, dispersed residential, and forested.
WEST	The adjoining properties are agricultural, dispersed residential, and forested.

Refer to Figure 2

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining sites providing indications of past use and activities, if any, are described below.

NORTH	None observed
EAST	None observed
SOUTH	None observed



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WEST	None observed
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5.8.3 Pits, Ponds, or Lagoons on Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds, and lagoons on adjoining sites:

NORTH	None observed
EAST	None observed
SOUTH	None observed
WEST	None observed

5.9 OBSERVED PHYSICAL SETTING

Topography of the Subject Property and Surrounding Area:	The Subject Property is generally sloped towards Humphrey Creek in the west of the Subject Property and Humphrey Branch in the east. The elevation ranges from approximately 450 feet above mean sea level (ft amsl) at the highest point to approximately 400 ft amsl at the lowest point of the Subject Property.
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6.0 INTERVIEWS

Stantec conducted interviews with the following individuals:

Name, Contact Information, and Date of Interview	Relationship to Subject Property	Key findings:
Jeff Davis	Owner	No notable findings from interview. Land used for farming and no known hazardous waste.
Patrick Baldwin	Landowner	No notable findings from interview. Land used for farming and no known hazardous waste.
Alan B. Perkins	Part Owner, Trustee, and Heir/Beneficiary	There are USTs and minor petroleum spills. No known hazardous waste spills. Marathon pipeline runs on each side of Highway 358. It is clearly marked along the fence lines.

Copies of interview documentation are provided in Appendix G.



7.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and an inspection was evaluated to determine if RECs are present in connection with the Subject Property. Based on this information, Stantec made the following findings and developed the following opinions.

- Stantec observed debris piles throughout the Subject Property containing household waste. No hazardous materials or chemical containers were noted in the debris piles. Improper solid-waste disposal practices would be considered de minimis conditions with minor impact to soil and/or groundwater quality at the Property and do not constitute a REC.
- Stantec observed soil staining in one of the large farm equipment barns. This soil staining occurred from either oil or gas leaking from on of the pieces of heavy machinery. The soil staining is minor and poses little impact to soil and/or groundwater quality at the Subject Property and is considered a de minimis condition.
- An environmental records search was performed and identified sites within their respective ASTM E1527-21 search radii of the Subject Property that may represent RECs, CRECs, HRECs, or de minimis conditions.

There was one spill record listed in the EDR report. This release occurred on September 20, 2011. This was a staging and burning area from natural disaster debris. Due to the small amount of pollution released (PM2.5) and the time passed since the incident, this is not considered a REC. The orphan sites noted in the EDR report are both asbestos sites. Both are located Northwest of the Subject Property and pose no concern to the project. They do not constitute a REC.

7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-21 identify a “data gap” as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the EP or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions from Scope of Work Referenced in Section 1.4:	None



PHASE I ENVIRONMENTAL SITE ASSESSMENT

Gap	Discussion
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None
Other Site Reconnaissance Restrictions:	None
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	Stantec did obtain historical records such as topographical maps and historic aerial photographs. However, that documentation did not provide information regarding the Project history in 5-year intervals. These data failures represent data gaps but are not considered significant such that it impacts the EP's ability to identify RECs at the Property.
Data Gaps from Interviews:	None
Other Data Gaps:	None

7.3 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of Song Sparrow Solar, or the "Subject Property". Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has revealed no recognized environmental conditions (RECs), Controlled RECs (CRECs), or significant data gaps in connection with the Subject Property. No further investigation is recommended at this time.



PHASE I ENVIRONMENTAL SITE ASSESSMENT

References

8.0 REFERENCES

ASTM International, 2021, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-21.

ASTM International, 2022, Standard Guide for Vapor Encroachment Screening on Subject Property Involved in Real Estate Transactions, Designation E 2600-22.

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EDR Certified Sanborn Map Report, Inquiry Number 7245006.3, February 07, 2023.

EDR City Directory Image Report, Inquiry #7245006.5, February 08, 2023.

EDR Historical Topographic Map Report, Inquiry Number 7245006.4, February 07, 2023.

EDR Area/Corridor Report, Inquiry Number 7245006.10s, February 07, 2023.

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FIGURES

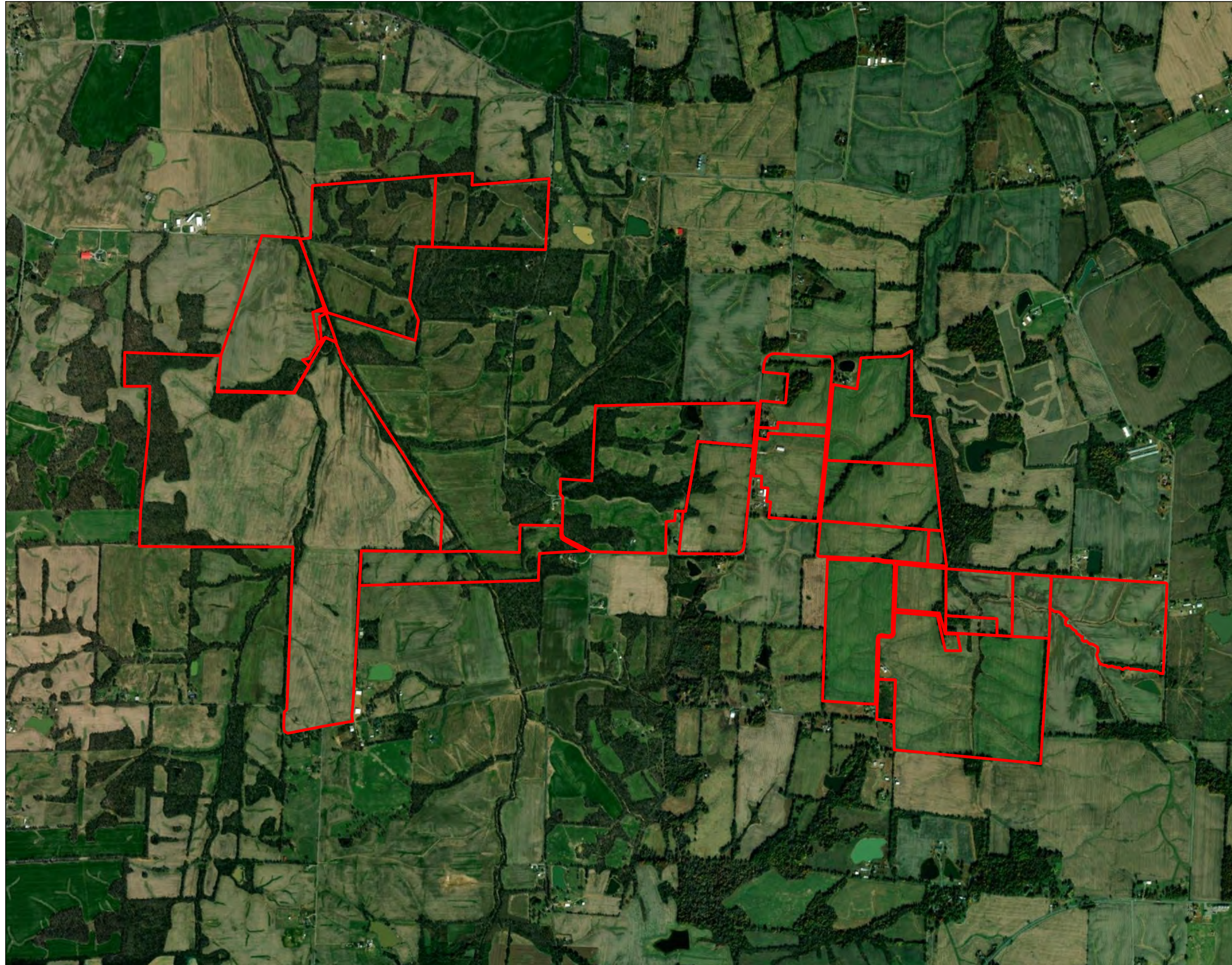


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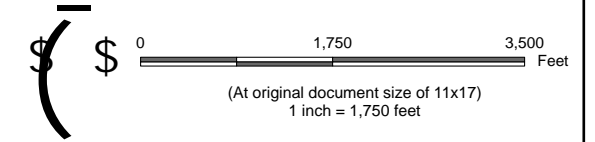
Project Area Map

Client/Project
 Clearway Energy, Inc.
 Song Sparrow Solar
 Phase 1 ESA Report

172607907

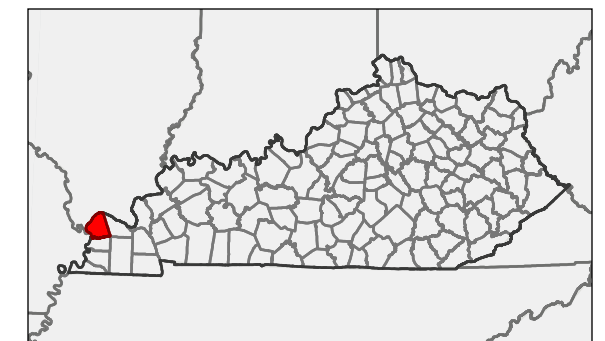
Project Location
 Ballard County,
 Kentucky

Prepared by MNA on 2023-06-13
 TR by CMK on 2023-06-16
 IR by SPK on 2023-06-16



Legend

Project Boundary



Notes
 1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Clearway Energy, Inc., Esri Aerial
 3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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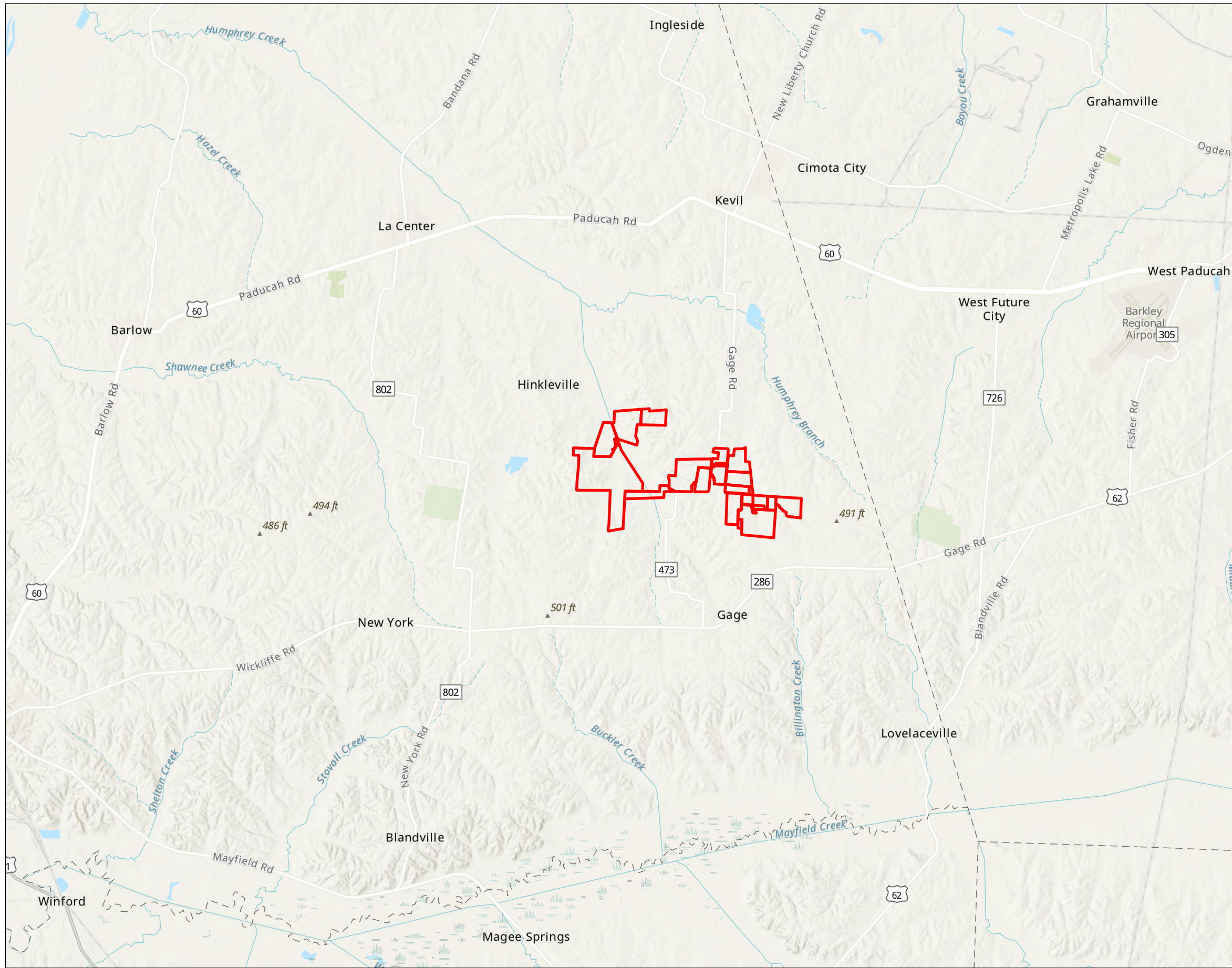
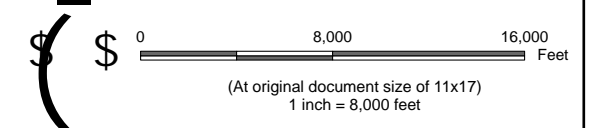
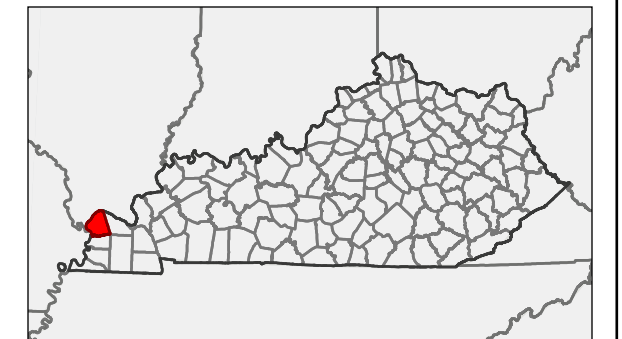


Figure No. **2**
Title **Project Location Map - Topo**

Client/Project: Clearway Energy, Inc. 172607907
Song Sparrow Solar
Phase 1 ESA Report
Project Location: Ballard County, Kentucky
Prepared by MNA on 2023-06-13
TR by CMK on 2023-06-16
IR by SPK on 2023-06-16



Legend
 Project Boundary



Notes
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2. Data Sources: Clearway Energy, Inc., Esri Aerial
3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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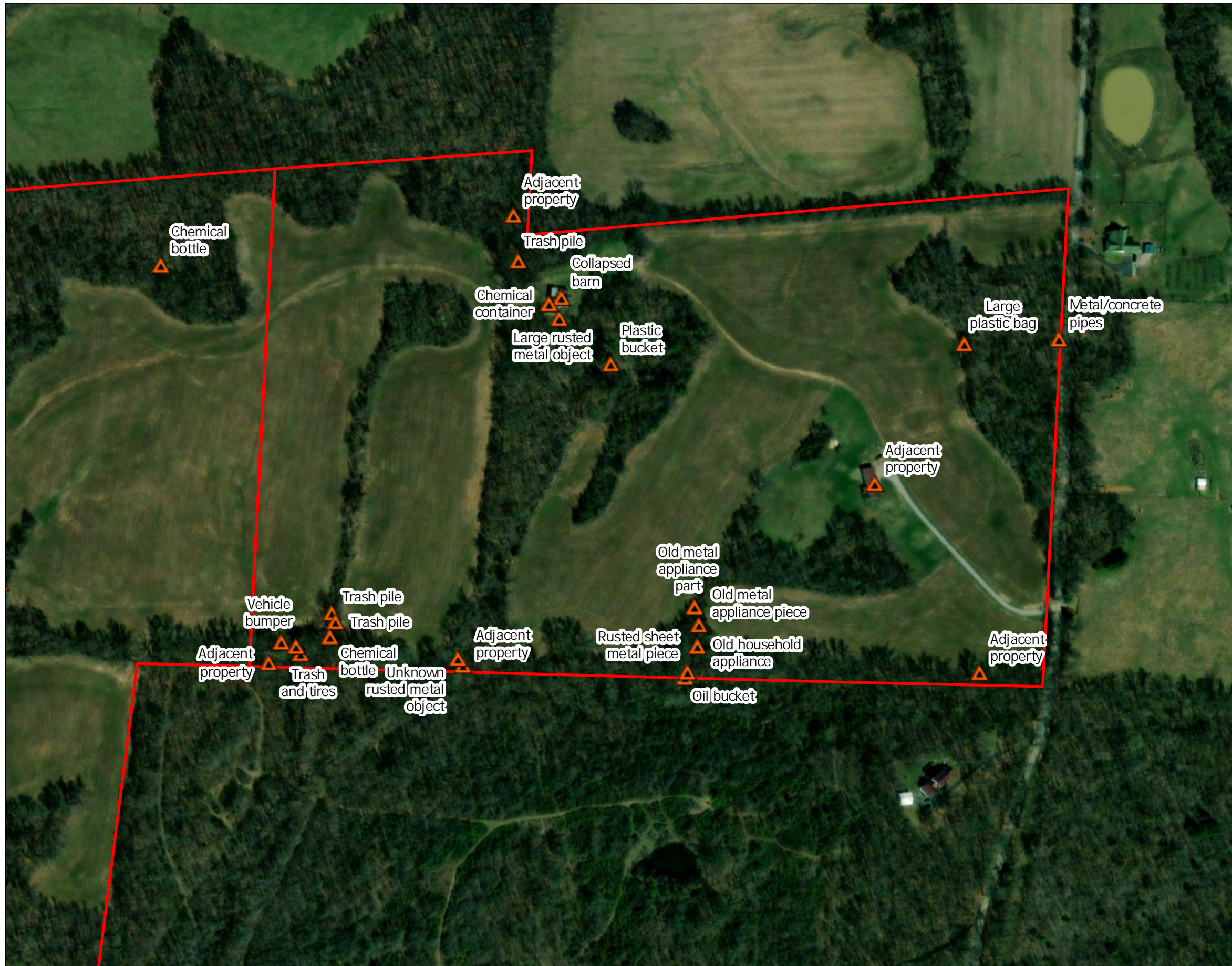


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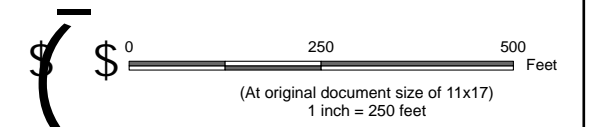
Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

172607907

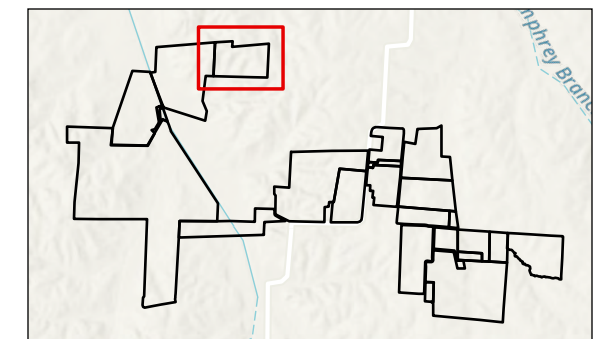
Project Location
Ballard County,
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Prepared by MNA on 2023-06-13
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IR by SPK on 2023-06-16



Legend

- Project Boundary
- ▲ Phase 1 ESA Points



- Notes**
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Figure No.

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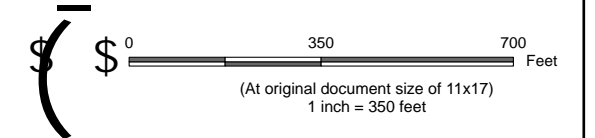
Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

172607907

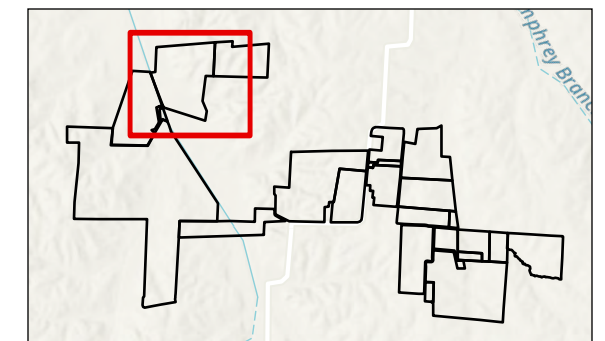
Project Location
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Legend

- Project Boundary
- ▲ Phase 1 ESA Points



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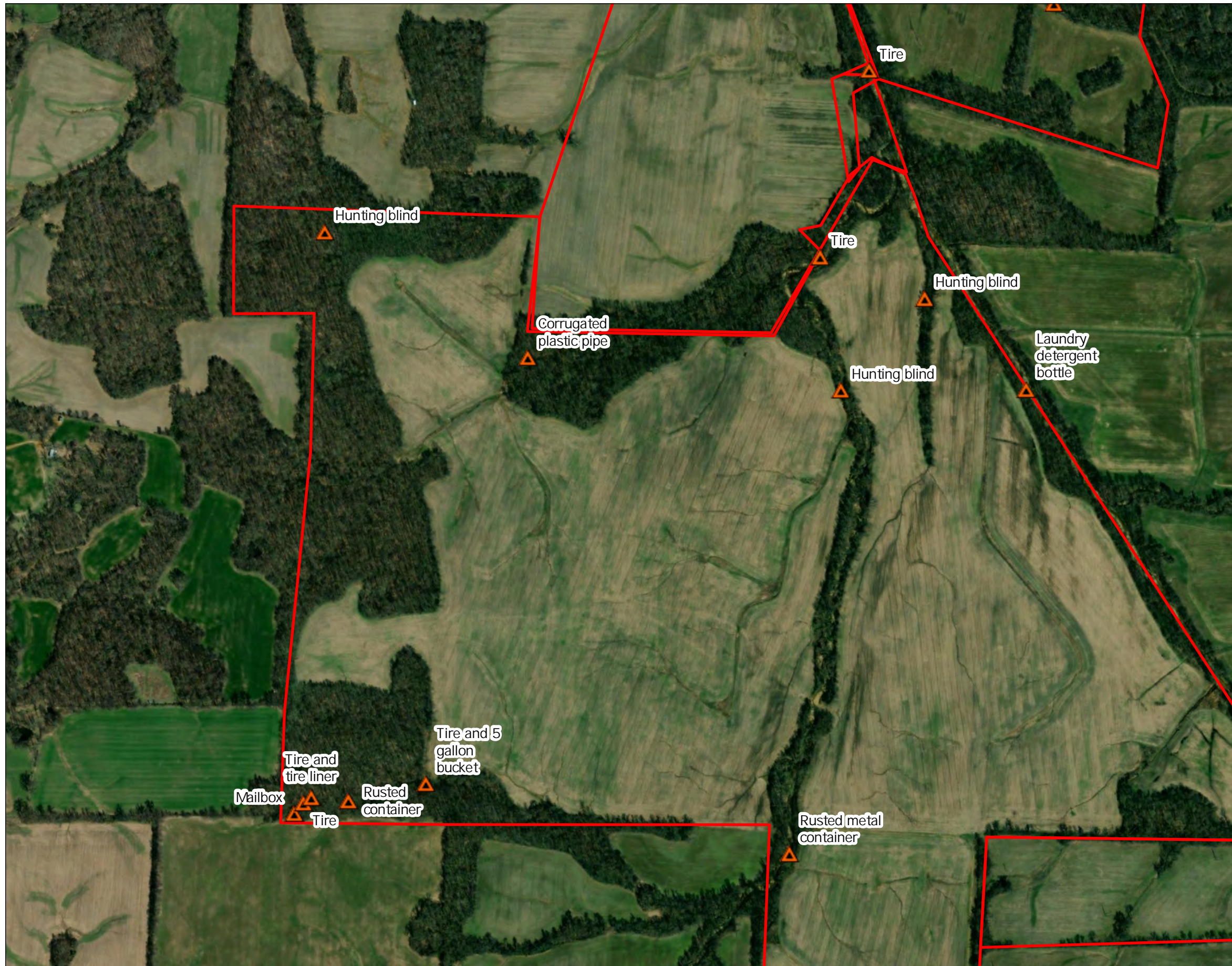
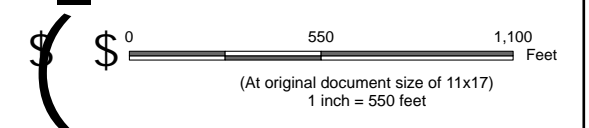
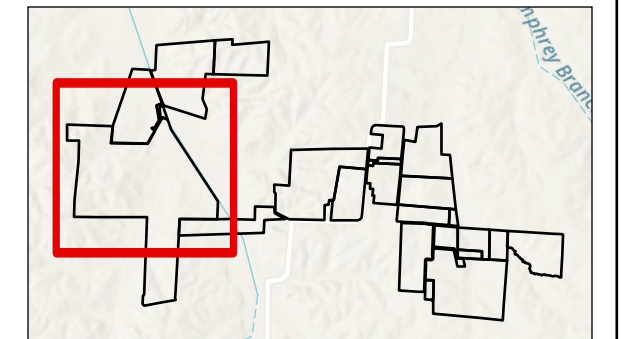


Figure No. **5**
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 Client/Project Clearway Energy, Inc. 172607907
 Song Sparrow Solar
 Phase 1 ESA Report
 Project Location Ballard County, Kentucky Prepared by MNA on 2023-06-13
 TR by CMK on 2023-06-16
 IR by SPK on 2023-06-16



Legend
 [Red outline] Project Boundary
 [Orange triangle] Phase 1 ESA Points



Notes
 1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
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 3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,USDA, USGS, AeroGRID, IGN, and the GIS User Community



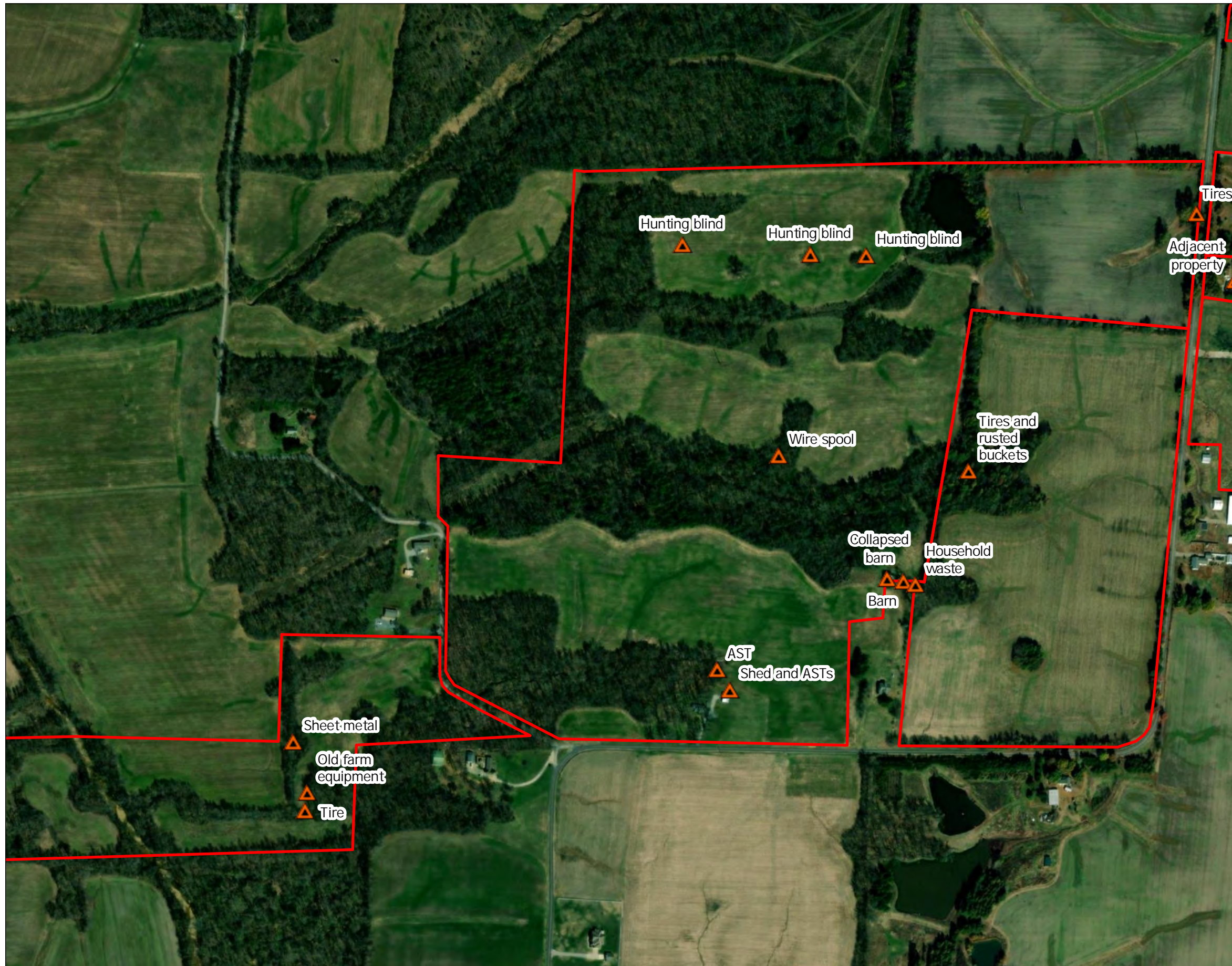


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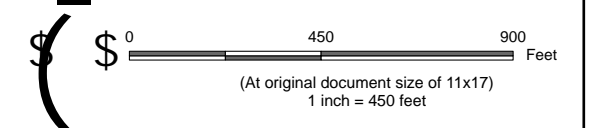
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Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

Project Location
Ballard County,
Kentucky

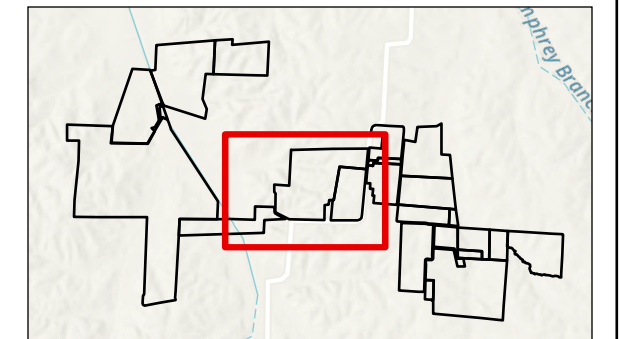
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Legend

- Project Boundary
- ▲ Phase 1 ESA Points



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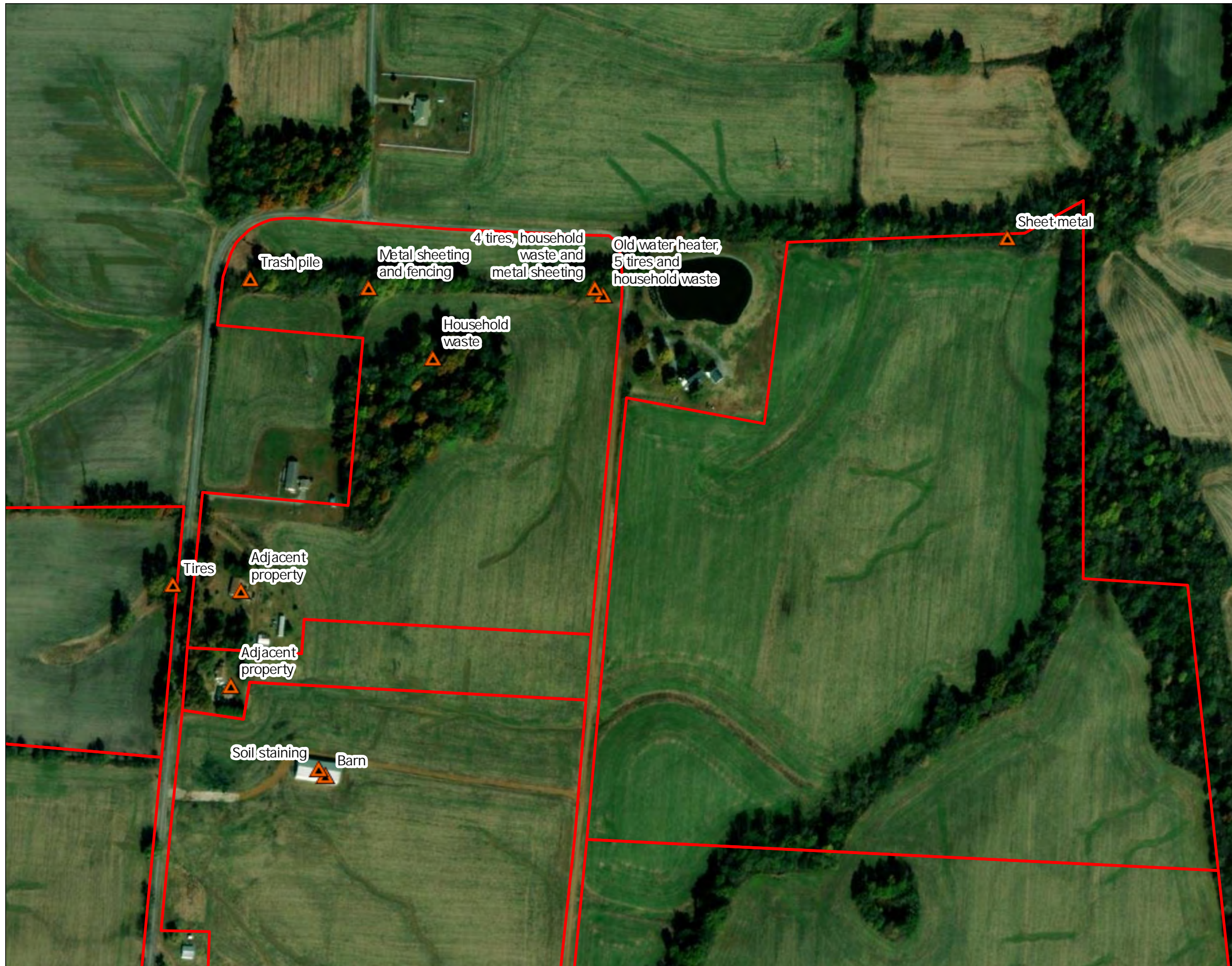


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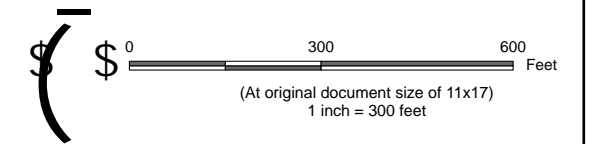
Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

172607907

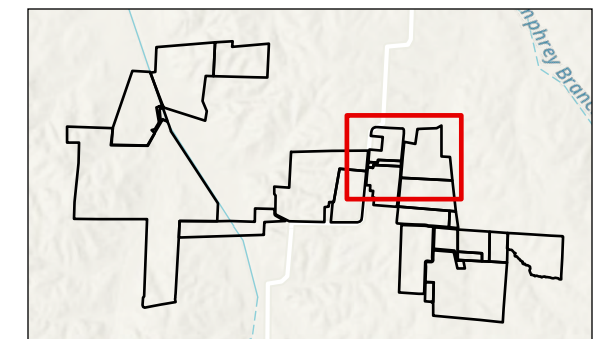
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Legend

- Project Boundary
- ▲ Phase 1 ESA Points



- Notes**
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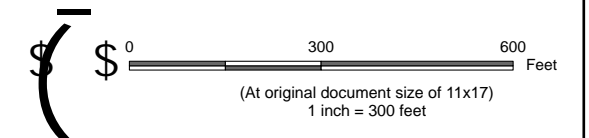


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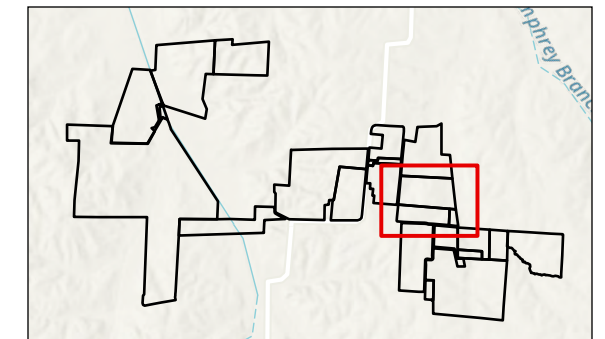
Client/Project
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 Phase 1 ESA Report 172607907

Project Location
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Legend

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- ▲ Phase 1 ESA Points



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 3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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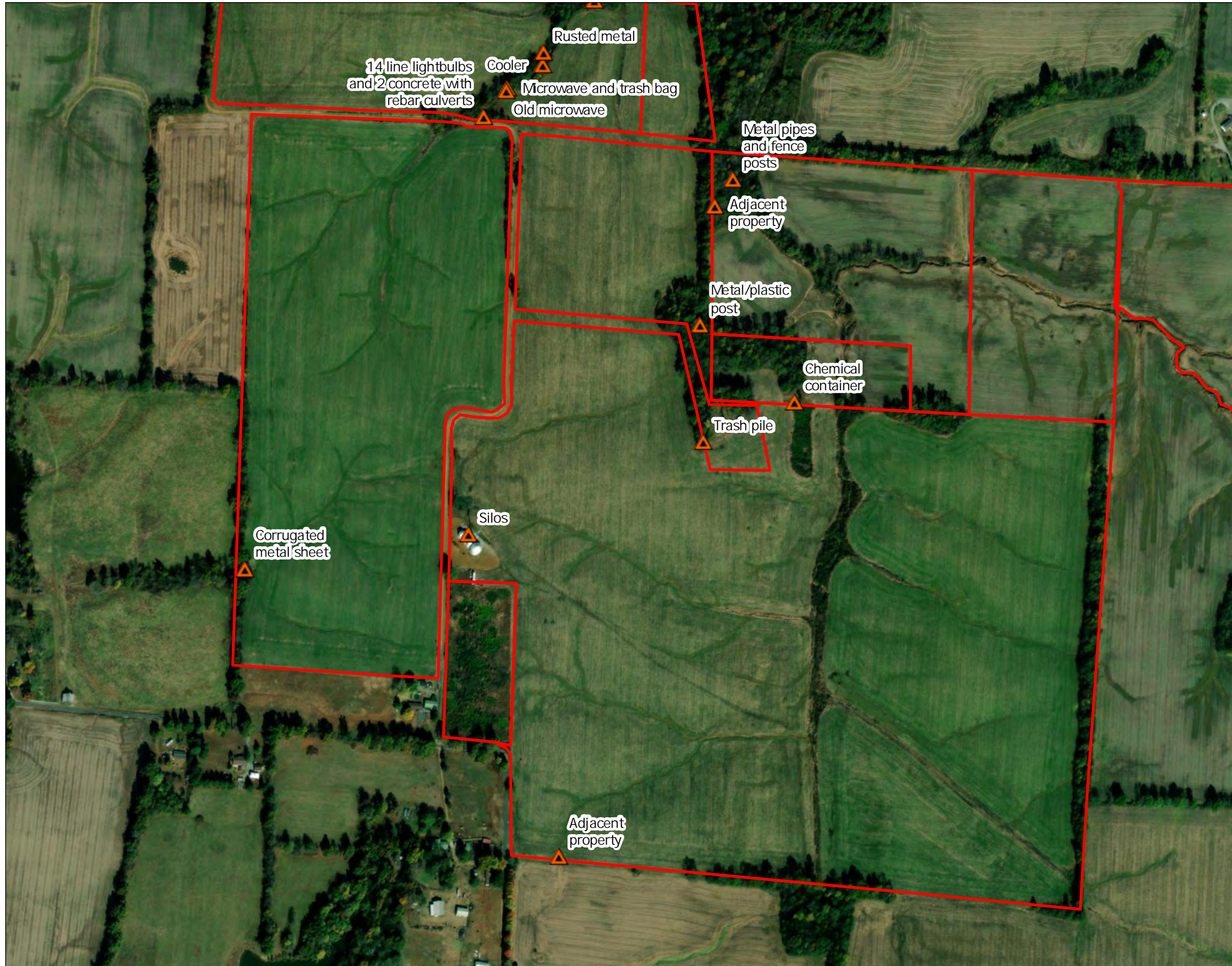


Figure No.

9

Title

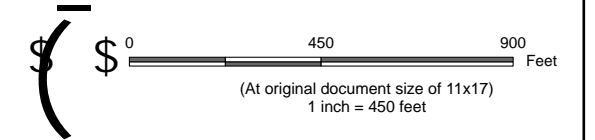
Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

172607907

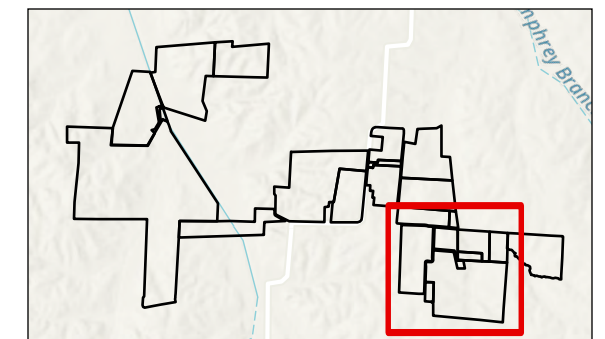
Project Location
Ballard County,
Kentucky

Prepared by MNA on 2023-06-13
TR by CMK on 2023-06-16
IR by SPK on 2023-06-16



Legend

- Project Boundary
- ▲ Phase 1 ESA Points



Notes
 1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Clearway Energy, Inc., Esri Aerial
 3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,USDA, USGS,AeroGRID, IGN, and the GIS User Community



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Figure No.

10

Title

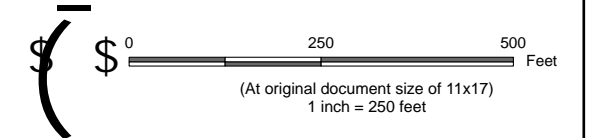
Phase 1 Environmental Site Assessment (ESA) Map

Client/Project
Clearway Energy, Inc.
Song Sparrow Solar
Phase 1 ESA Report

172607907

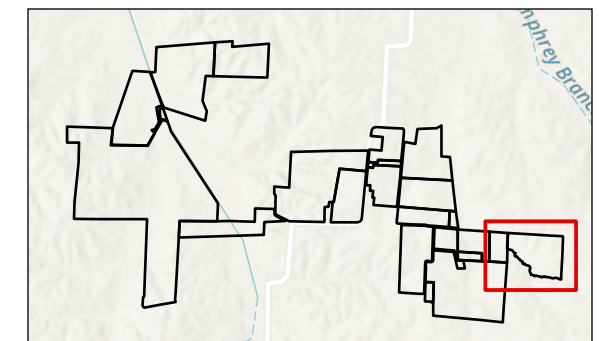
Project Location
Ballard County,
Kentucky

Prepared by MNA on 2023-06-13
TR by CMK on 2023-06-16
IR by SPK on 2023-06-16



Legend

- Project Boundary
- ▲ Phase 1 ESA Points




- Notes**
1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Clearway Energy, Inc., Esri Aerial
 3. Background: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,USDA, USGS,AeroGRID, IGN, and the GIS User Community




APPENDICES

**APPENDIX A
PHOTOGRAPHS OF THE
PROPERTY AND VICINITY**

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY

Photograph ID: 1	
Photo ID: P1-01	
Photo Location: 37.0164750000001,- 88.8638999999999	
Direction: SSW	
Comments: Could not access inside of barn	
Survey Date: 2/20/2023	

Photograph ID: 2	
Photo ID: P1-04	
Photo Location: 37.0176277780001,- 88.865277779999	
Direction: WNW	
Comments: Silo	
Survey Date: 2/20/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY

Photograph ID: 3	
Photo ID: P1-04	
Photo Location: 37.0176222220001,- 88.865080556	
Direction: WSW	
Comments: Silo	
Survey Date: 2/20/2023	

Photograph ID: 4	
Photo ID: P1-04	
Photo Location: 37.0176250000001,- 88.865272222	
Direction: SSW	
Comments: Silo	
Survey Date: 2/20/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 5			
Photo ID: P1-06			
Photo Location: 37.020897222,- 88.880527778			
Direction: SE			
Comments: 14 line lightbulbs and 2 concrete with rebar culverts			
Survey Date: 2/20/2023			
Photograph ID: 6			
Photo ID: P1-06			
Photo Location: 37.020897222,- 88.880533333			
Direction: SSE			
Comments: 14 line lightbulbs and 2 concrete with rebar culverts			
Survey Date: 2/20/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 7	
Photo ID: P1-06	
Photo Location: 37.02089444440001,- 88.8805305559999	
Direction: ESE	
Comments: 14 line lightbulbs and 2 concrete with rebar culverts	
Survey Date: 2/20/2023	

Photograph ID: 8	
Photo ID: P1-08	
Photo Location: 37.018375,-88.866780556	
Direction: NNW	
Comments: Trash pile in stream	
Survey Date: 2/20/2023	



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY

Photograph ID: 9	
Photo ID: P1-13	
Photo Location: 37.0262805560001,- 88.878019444	
Direction: WNW	
Comments: 7, 50 gallon drums used for property boundary	
Survey Date: 2/20/2023	

Photograph ID: 10	
Photo ID: P1-13	
Photo Location: 37.026308333,- 88.8779777779999	
Direction: W	
Comments: 7, 50 gallon drums used for property boundary	
Survey Date: 2/20/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 11			
Photo ID: P1-15			
Photo Location: 37.0305805560001,- 88.8802111109999			
Direction: N			
Comments: Sheet metal			
Survey Date: 2/20/2023			
Photograph ID: 12			
Photo ID: P1-16			
Photo Location: 37.018680556,- 88.8668777779999			
Direction: SSW			
Comments: Assorted metal pipes and plastic tubing/pipes			
Survey Date: 2/20/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 13			
Photo ID: P1-17			
Photo Location: 37.0241,-88.883702778			
Direction: WSW			
Comments: Microwave			
Survey Date: 2/20/2023			
Photograph ID: 14			
Photo ID: P1-19			
Photo Location: 37.0170138890001,- 88.8770083329999			
Direction: E			
Comments: Concrete structue			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 15			
Photo ID: P1-19			
Photo Location: 37.0170055560001,- 88.8770388889999			
Direction: E			
Comments: Concrete structue			
Survey Date: 2/21/2023			
Photograph ID: 16			
Photo ID: P1-20			
Photo Location: 37.0300777780001,- 88.884372222			
Direction: W			
Comments: Old water heater, 5 tires and household waste			
Survey Date: 2/21/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 17	
Photo ID: P1-20	
Photo Location: 37.030055556,- 88.884377778	
Direction: SSE	
Comments: Old water heater, 5 tires and household waste	
Survey Date: 2/21/2023	


Photograph ID: 18	
Photo ID: P1-20	
Photo Location: 37.030055556,- 88.884369444	
Direction: SE	
Comments: Old water heater, 5 tires and household waste	
Survey Date: 2/21/2023	



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 19			
Photo ID: P1-20			
Photo Location: 37.0300888890001,- 88.884375			
Direction: WSW			
Comments: Old water heater, 5 tires and household waste			
Survey Date: 2/21/2023			
Photograph ID: 20			
Photo ID: P1-21			
Photo Location: 37.0300250000001,- 88.884452778			
Direction: SE			
Comments: 4 tires, household waste and metal sheeting			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 21			
Photo ID: P1-21			
Photo Location: 37.0300444440001,- 88.884488889			
Direction: SE			
Comments: 4 tires, household waste and metal sheeting			
Survey Date: 2/21/2023			
Photograph ID: 22			
Photo ID: P1-22			
Photo Location: 37.0300333330001,- 88.887963889			
Direction: SSW			
Comments: Rusted metal pipe			
Survey Date: 2/21/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 23			
Photo ID: P1-23			
Photo Location: 37.029419444,- 88.886052778			
Direction: SW			
Comments: Household waste			
Survey Date: 2/21/2023			
Photograph ID: 24			
Photo ID: P1-24			
Photo Location: 37.0299277780001,- 88.886772222			
Direction: SSW			
Comments: Metal sheeting and fencing			
Survey Date: 2/21/2023			

Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 25			
Photo ID: P1-25			
Photo Location: 37.0296361110001,- 88.8841166669999			
Direction: NE			
Comments: Residential house			
Survey Date: 2/21/2023			
Photograph ID: 26			
Photo ID: P1-26			
Photo Location: 37.029736111,- 88.8840888889999			
Direction: NE			
Comments: Pond			
Survey Date: 2/21/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 27			
Photo ID: P1-27			
Photo Location: 37.0261166670001,- 88.8867194439999			
Direction: W			
Comments: Barn for heavy equipment storage			
Survey Date: 2/21/2023			
Photograph ID: 28			
Photo ID: P1-27			
Photo Location: 37.026216667,-88.887275			
Direction: NNE			
Comments: Barn for heavy equipment storage			
Survey Date: 2/21/2023			



Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 29			
Photo ID: P1-27			
Photo Location: 37.0262138890001,- 88.887227778			
Direction: N			
Comments: Barn for heavy equipment storage			
Survey Date: 2/21/2023			
Photograph ID: 30			
Photo ID: P1-27			
Photo Location: 37.0260361110001,- 88.887108333			
Direction: S			
Comments: Barn for heavy equipment storage			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 31			
Photo ID: P1-28			
Photo Location: 37.026141667,- 88.88699999999999			
Direction: ESE			
Comments: Soil staining			
Survey Date: 2/21/2023			
Photograph ID: 32			
Photo ID: P1-28			
Photo Location: 37.0260500000001,- 88.887311111			
Direction: SW			
Comments: Soil staining			
Survey Date: 2/21/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 33			
Photo ID: P1-29			
Photo Location: 37.0258166670001,- 88.8879888889			
Direction: W			
Comments: Residential property			
Survey Date: 2/21/2023			
Photograph ID: 34			
Photo ID: P1-30			
Photo Location: 37.0258555560001,- 88.888461111			
Direction: NNW			
Comments: Residential property			
Survey Date: 2/21/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 35			
Photo ID: P1-31			
Photo Location: 37.0273194440001,- 88.888344444			
Direction: NE			
Comments: Residential property			
Survey Date: 2/21/2023			
Photograph ID: 36			
Photo ID: P1-32			
Photo Location: 37.028880556,- 88.8881361109999			
Direction: NE			
Comments: Residential property			
Survey Date: 2/21/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 37			
Photo ID: P1-33			
Photo Location: 37.030808333,- 88.8866555559999			
Direction: ENE			
Comments: Residential property			
Survey Date: 2/21/2023			
Photograph ID: 38			
Photo ID: P1-34			
Photo Location: 37.027511111,- 88.888672222			
Direction: ESE			
Comments: Tires			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 39			
Photo ID: P1-35			
Photo Location: 37.011702778,- 88.874638889			
Direction: S			
Comments: Metal pipe approximately 3 ft in diameter			
Survey Date: 2/21/2023			
Photograph ID: 40			
Photo ID: P1-37			
Photo Location: 37.0202444440001,- 88.876688889			
Direction: E			
Comments: Metal pipes and fence posts			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 41			
Photo ID: P1-40			
Photo Location: 37.0155638890001,- 88.880844444			
Direction: NNE			
Comments: Silo			
Survey Date: 2/21/2023			
Photograph ID: 42			
Photo ID: P1-42			
Photo Location: 37.023027778,- 88.8931777779999			
Direction: SSE			
Comments: Collapsed barn			
Survey Date: 2/21/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 43			
Photo ID: P1-42			
Photo Location: 37.022922222,- 88.893302778			
Direction: E			
Comments: Collapsed barn			
Survey Date: 2/21/2023			
Photograph ID: 44			
Photo ID: P1-43			
Photo Location: 37.018408333,- 88.877086111			
Direction: N			
Comments: Plastic encased T-post, wire wrapped around			
Survey Date: 2/21/2023			

Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 45			
Photo ID: P1-44			
Photo Location: 37.022922222,- 88.893011111			
Direction: NE			
Comments: Barn			
Survey Date: 2/21/2023			
Photograph ID: 46			
Photo ID: P1-44			
Photo Location: 37.0229833330001,- 88.8930444439999			
Direction: SSE			
Comments: Barn			
Survey Date: 2/21/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 47			
Photo ID: P1-45			
Photo Location: 37.0229055560001,- 88.893369444			
Direction: SSW			
Comments: Residential			
Survey Date: 2/21/2023			
Photograph ID: 48			
Photo ID: P1-46			
Photo Location: 37.017566667,- 88.8756861109999			
Direction: ESE			
Comments: Chemical container			
Survey Date: 2/21/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 49	
Photo ID: P1-48	
Photo Location: 37.024258333,- 88.892005556	
Direction: WSW	
Comments: Tires, and rusted buckets	
Survey Date: 2/21/2023	



Photograph ID: 50	
Photo ID: P1-49	
Photo Location: 37.0214916670001,- 88.8954555559999	
Direction: WNW	
Comments: Shed and ASTs, no staining observed	
Survey Date: 2/22/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY


Photograph ID: 51	
Photo ID: P1-50	
Photo Location: 37.0220277780001,- 88.899994444	
Direction: W	
Comments: Petroleum ASTs, no staining observed	
Survey Date: 2/22/2023	



Photograph ID: 52	
Photo ID: P1-51	
Photo Location: 37.022288889,- 88.8999638889999	
Direction: WSW	
Comments: Surrounding property	
Survey Date: 2/22/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 53			
Photo ID: P1-52			
Photo Location: 37.0231416670001,- 88.900008333			
Direction: NW			
Comments: Pole mounted transformer on adjacent property			
Survey Date: 2/22/2023			
Photograph ID: 54			
Photo ID: P1-53			
Photo Location: 37.0210277780001,- 88.899997222			
Direction: E			
Comments: Surrounding house			
Survey Date: 2/22/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 55			
Photo ID: P1-54			
Photo Location: 37.0210361110001,- 88.8999916669999			
Direction: NE			
Comments: Surrounding house			
Survey Date: 2/22/2023			
Photograph ID: 56			
Photo ID: P1-55			
Photo Location: 37.011852778,- 88.879013889			
Direction: S			
Comments: Photo of adjacent property facing south			
Survey Date: 2/22/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 57			
Photo ID: P1-56			
Photo Location: 37.0206333333,- 88.902166667			
Direction: NE			
Comments: Sheet metal pile			
Survey Date: 2/22/2023			
Photograph ID: 58			
Photo ID: P1-57			
Photo Location: 37.02003333330001,- 88.901938889			
Direction: SE			
Comments: Old farm equipment, no staining			
Survey Date: 2/22/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 59			
Photo ID: P1-58			
Photo Location: 37.0198083330001,- 88.90191111109999			
Direction: SSW			
Comments: Old tire			
Survey Date: 2/22/2023			
Photograph ID: 60			
Photo ID: P1-59			
Photo Location: 37.0197388890001,- 88.8772361109999			
Direction: N			
Comments: Adjacent property			
Survey Date: 2/22/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 61			
Photo ID: P1-60			
Photo Location: 37.035177778,- 88.902061111			
Direction: SSW			
Comments: Adjacent property			
Survey Date: 2/22/2023			
Photograph ID: 62			
Photo ID: P1-61			
Photo Location: 37.035255556,- 88.9044527779999			
Direction: W			
Comments: Old household appliance			
Survey Date: 2/22/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 63			
Photo ID: P1-62			
Photo Location: 37.035877778,- 88.902336111			
Direction: WNW			
Comments: Residential property on/adjacent to Subject Property			
Survey Date: 2/22/2023			
Photograph ID: 64			
Photo ID: P1-63			
Photo Location: 37.0356166670001,- 88.9014			
Direction: NE			
Comments: Adjacent property facing east			
Survey Date: 2/22/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 65	
Photo ID: P1-64	
Photo Location: 37.021708333,- 88.895741667	
Direction: SW	
Comments: AST, no staining observed	
Survey Date: 2/22/2023	


Photograph ID: 66	
Photo ID: P1-65	
Photo Location: 37.014136111,- 88.9120722219999	
Direction: S	
Comments: 500-gal AST	
Survey Date: 2/23/2023	

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 67			
Photo ID: P1-66			
Photo Location: 37.014125,-88.912061111			
Direction: SSE			
Comments: Neighboring property- 2 storage barns			
Survey Date: 2/23/2023			
Photograph ID: 68			
Photo ID: P1-67			
Photo Location: 37.035080556,-88.9044777779999			
Direction: SE			
Comments: Oil bucket			
Survey Date: 2/23/2023			


Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 69			
Photo ID: P1-67			
Photo Location: 37.035083333,- 88.904472222			
Direction: ESE			
Comments: Oil bucket			
Survey Date: 2/23/2023			
Photograph ID: 70			
Photo ID: P1-69			
Photo Location: 37.0354722220001,- 88.904327778			
Direction: WSW			
Comments: Old metal appliance piece			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 71			
Photo ID: P1-70			
Photo Location: 37.0355638890001,- 88.904394444			
Direction: WSW			
Comments: Old metal appliance part			
Survey Date: 2/23/2023			
Photograph ID: 72			
Photo ID: P1-71			
Photo Location: 37.0351666670001,- 88.906344444			
Direction: SE			
Comments: Photo of adjacent property facing south			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 73			
Photo ID: P1-72			
Photo Location: 37.0351694440001,- 88.906427778			
Direction: ESE			
Comments: Unknown rusted metal object			
Survey Date: 2/23/2023			
Photograph ID: 74			
Photo ID: P1-74			
Photo Location: 37.0375250000001,- 88.905669444			
Direction: S			
Comments: Large rusted metal object			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 75			
Photo ID: P1-74			
Photo Location: 37.03753333330001,- 88.905716667			
Direction: NE			
Comments: Large rusted metal object			
Survey Date: 2/23/2023			
Photograph ID: 76			
Photo ID: P1-75			
Photo Location: 37.0376305560001,- 88.9055888889999			
Direction: SSW			
Comments: Collapsed barn with tires, gardening tools, large metal drum inside barn			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 77	
Photo ID: P1-75	
Photo Location: 37.037636111,- 88.905572222	
Direction: SSE	
Comments: Collapsed barn with tires, gardening tools, large metal drum inside barn	
Survey Date: 2/23/2023	

Photograph ID: 78	
Photo ID: P1-75	
Photo Location: 37.037541667,- 88.905477778	
Direction: N	
Comments: Collapsed barn with tires, gardening tools, large metal drum inside barn	
Survey Date: 2/23/2023	

Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 79			
Photo ID: P1-75			
Photo Location: 37.0377222220001,- 88.9056944439999			
Direction: SE			
Comments: Collapsed barn with tires, gardening tools, large metal drum inside barn			
Survey Date: 2/23/2023			
Photograph ID: 80			
Photo ID: P1-76			
Photo Location: 37.0378638890001,- 88.906002778			
Direction: E			
Comments: Household trash pile			
Survey Date: 2/23/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 81			
Photo ID: P1-77			
Photo Location: 37.0382500000001,- 88.905975			
Direction: NNE			
Comments: Adjacent operty facing east			
Survey Date: 2/23/2023			
Photograph ID: 82			
Photo ID: P1-78			
Photo Location: 37.0352055560001,- 88.9163722219999			
Direction: NW			
Comments: General household waste			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 83			
Photo ID: P1-78			
Photo Location: 37.035213889,- 88.916363889			
Direction: W			
Comments: General household waste			
Survey Date: 2/23/2023			
Photograph ID: 84			
Photo ID: P1-80			
Photo Location: 37.035436111,- 88.907505556			
Direction: WSW			
Comments: Metal drum and various debris			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 85			
Photo ID: P1-80			
Photo Location: 37.0354333330001,- 88.907486111			
Direction: SSE			
Comments: Metal drum and various debris			
Survey Date: 2/23/2023			
Photograph ID: 86			
Photo ID: P1-80			
Photo Location: 37.035441667,- 88.907483333			
Direction: SE			
Comments: Metal drum and various debris			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY



Photograph ID: 87	
Photo ID: P1-81	
Photo Location: 37.035375,-88.907458333	
Direction: SSE	
Comments: Trash pile	
Survey Date: 2/23/2023	

Photograph ID: 88	
Photo ID: P1-82	
Photo Location: 37.0352777780001,- 88.9075194439999	
Direction: ESE	
Comments: Chemical bottle	
Survey Date: 2/23/2023	



Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 89			
Photo ID: P1-83			
Photo Location: 37.01683333330001,- 88.911986111			
Direction: E			
Comments: Silo, 2, 500 ast and barn			
Survey Date: 2/23/2023			
Photograph ID: 90			
Photo ID: P1-83			
Photo Location: 37.01697500000001,- 88.911997222			
Direction: NNW			
Comments: Silo, 2, 500 ast and barn			
Survey Date: 2/23/2023			


Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 91			
Photo ID: P1-83			
Photo Location: 37.0169611110001,- 88.911997222			
Direction: NNE			
Comments: Silo, 2, 500 ast and barn			
Survey Date: 2/23/2023			
Photograph ID: 92			
Photo ID: P1-83			
Photo Location: 37.016558333,- 88.9119638889999			
Direction: NW			
Comments: Vehicle bumper			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 93			
Photo ID: P1-84			
Photo Location: 37.035227778,- 88.907897222			
Direction: E			
Comments: Photo of adjacent property facing south			
Survey Date: 2/23/2023			
Photograph ID: 94			
Photo ID: P1-85			
Photo Location: 37.035238889,-88.907975			
Direction: E			
Comments: Trash and tires			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 95			
Photo ID: P1-86			
Photo Location: 37.035158333,- 88.907777778			
Direction: NNE			
Comments: Trash and tires			
Survey Date: 2/23/2023			
Photograph ID: 96			
Photo ID: P1-87			
Photo Location: 37.0352,-88.907786111			
Direction: WNW			
Comments: Table and household trash			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 97			
Photo ID: P1-88			
Photo Location: 37.0329861110001,- 88.9110527779999			
Direction: SW			
Comments: Tire			
Survey Date: 2/23/2023			
Photograph ID: 98			
Photo ID: P1-89			
Photo Location: 37.033544444,- 88.912486111			
Direction: WSW			
Comments: Plastic barrel			
Survey Date: 2/23/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 99			
Photo ID: P1-90			
Photo Location: 37.03253333330001,- 88.914713889			
Direction: SW			
Comments: Tire			
Survey Date: 2/23/2023			
Photograph ID: 100			
Photo ID: P1-91			
Photo Location: 37.031894444,- 88.914477778			
Direction: NW			
Comments: Tire			
Survey Date: 2/23/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 101			
Photo ID: P1-92			
Photo Location: 37.0375722220001,- 88.905777778			
Direction: NNW			
Comments: Chemical container			
Survey Date: 2/23/2023			
Photograph ID: 102			
Photo ID: P1-94			
Photo Location: 37.0378250000001,- 88.9016			
Direction: NE			
Comments: Adjacent property			
Survey Date: 2/24/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 103			
Photo ID: P1-95			
Photo Location: 37.020119444,- 88.915441667			
Direction: S			
Comments: Rusted metal container			
Survey Date: 2/24/2023			
Photograph ID: 104			
Photo ID: P1-96			
Photo Location: 37.037461111,-88.901425			
Direction: NE			
Comments: Metal/concrete pipes			
Survey Date: 2/24/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 105			
Photo ID: P1-97			
Photo Location: 37.035186111,- 88.9155888889999			
Direction: SSE			
Comments: Tire			
Survey Date: 2/24/2023			
Photograph ID: 106			
Photo ID: P1-99			
Photo Location: 37.029061111,-88.915275			
Direction: NNW			
Comments: Tire			
Survey Date: 2/24/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 107			
Photo ID: P1-100			
Photo Location: 37.0144361110001,- 88.911902778			
Direction: SE			
Comments: Pond			
Survey Date: 2/24/2023			
Photograph ID: 108			
Photo ID: P1-101			
Photo Location: 37.0124666670001,- 88.911861111			
Direction: SSW			
Comments: Electrical utilities			
Survey Date: 2/24/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 109			
Photo ID: P1-104			
Photo Location: 37.0309916670001,- 88.911127778			
Direction: ESE			
Comments: Adjacent property			
Survey Date: 2/28/2023			
Photograph ID: 110			
Photo ID: P1-109			
Photo Location: 37.0345,-88.91065			
Direction: ENE			
Comments: Herbicide spray bottles			
Survey Date: 2/28/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 111			
Photo ID: P1-109			
Photo Location: 37.034497222,- 88.910638889			
Direction: NNW			
Comments: Herbicide spray bottles			
Survey Date: 2/28/2023			
Photograph ID: 112			
Photo ID: P1-109			
Photo Location: 37.034488889,- 88.910644444			
Direction: NNW			
Comments: Herbicide spray bottles			
Survey Date: 2/28/2023			



Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 113			
Photo ID: P1-112			
Photo Location: 37.0354833330001,- 88.910422222			
Direction: SW			
Comments: Metal and plastic debris			
Survey Date: 2/28/2023			
Photograph ID: 114			
Photo ID: P1-114			
Photo Location: 37.0355777780001,- 88.910327778			
Direction: N			
Comments: Spilled container of styrofoam balls			
Survey Date: 2/28/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 115			
Photo ID: P1-116			
Photo Location: 37.034883333,- 88.911827778			
Direction: S			
Comments: Barn			
Survey Date: 2/28/2023			
Photograph ID: 116			
Photo ID: P1-116			
Photo Location: 37.035,-88.911652778			
Direction: ESE			
Comments: Barn			
Survey Date: 2/28/2023			

Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 117			
Photo ID: P1-118			
Photo Location: 37.022897222,- 88.907508333			
Direction: S			
Comments: Tire			
Survey Date: 2/28/2023			
Photograph ID: 118			
Photo ID: P1-136			
Photo Location: 37.0370194440001,- 88.914708333			
Direction: SSW			
Comments: Unknown contents/chemicals previously stored			
Survey Date: 3/1/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 119			
Photo ID: P1-146			
Photo Location: 37.037769444,- 88.909008333			
Direction: W			
Comments: Chemical bottle with unknown contents			
Survey Date: 3/1/2023			
Photograph ID: 120			
Photo ID: P1-151			
Photo Location: 37.0206388890001,- 88.9245583329999			
Direction: ENE			
Comments: Tire			
Survey Date: 3/1/2023			

Client: Clearway Energy Group, LLC		Project: Song Sparrow Solar Project	
Site Name: Song Sparrow Solar		Site Location: Ballard County, KY	
Photograph ID: 121			
Photo ID: P1-152			
Photo Location: 37.0207083330001,- 88.924436111			
Direction: NE			
Comments: Tire and tire liner			
Survey Date: 3/1/2023			
Photograph ID: 122			
Photo ID: P1-153			
Photo Location: 37.020688889,- 88.9237277779999			
Direction: SW			
Comments: Rusted container			
Survey Date: 3/1/2023			

Client:	Clearway Energy Group, LLC	Project:	Song Sparrow Solar Project
Site Name:	Song Sparrow Solar	Site Location:	Ballard County, KY
Photograph ID: 123			
Photo ID: P1-154			
Photo Location: 37.020991667,- 88.92228333329999			
Direction: WNW			
Comments: Tire and 5 gal bucket			
Survey Date: 3/1/2023			
Photograph ID: 124			
Photo ID: P1-155			
Photo Location: 37.0273888890001,- 88.920672222			
Direction: ENE			
Comments: Corrugated plastic pipe			
Survey Date: 3/1/2023			

APPENDIX B
STANTEC RESUMES

Kelly Daniels QHP-IT

Biologist - Technical Writer

Kelly Daniels is a Biologist and Technical Writer with experience conducting ecological field work and preparing Jurisdictional Determinations and Clean Water Act Section 401/404 permit packages. Kelly has experience writing Phase 1 Environmental Site Assessment (ESA) reports as well as conducting site visits. Her experience in consulting has strengthened her data analysis and writing skills as well as her understanding of ecological concepts, environmental laws and regulations, and her ability to lead teams in the field and the office. In addition, she has 3 years of research experience outside of consulting which includes a variety of wildlife surveys, wildflower surveys, and stream restoration work. Kelly is also proficient in ArcGIS, Collector for ArcGIS, and Microsoft Office programs.

EDUCATION

MS, Environmental Science, University of Tennessee at Chattanooga, Chattanooga, Tennessee, 2018

BS, Environmental and Natural Resources (Minor in Biological Science), Clemson University, Clemson, South Carolina, 2016

CERTIFICATIONS & TRAINING

Groundwater Sampling, Environmental Standards, Knoxville, Tennessee, 2019

OSHA 10-Hour Construction Safety, AdvanceOnline Solutions Online Institute, Houston, TX, 2019

ASTM E1527 - Phase I & Phase II Environmental Site Assessment Process, ASTM International, Virtual Event, VE, United States, 2021

PROJECT EXPERIENCE

PHASE I & II ENVIRONMENTAL SITE ASSESSMENTS

Hazardous Sites Evaluation and Water Well Survey | City of Lynchburg | Lynchburg, Virginia, United States | 2022-2023 | Environmental Scientist

Avangrid - Phase I ESAs | Avangrid | Virginia | 2022 | Environmental Scientist

Kingfish Phase I ESA | EDF Renewables Distributed Solutions, Inc. | Cape Charles, Virginia, United States | 2022 | Environmental Scientist

Project Sprint, Phase I ESAs | Baker Hughes Company | 2021-2022 | Document Writing Team Lead/Writer

BP North America - Phase I ESAs | BP North America | 2022 | Environmental Scientist

Four Seasons Residential Development, Phase I ESA | K. Hovnanian Homes | Ruckersville, Virginia, United States | 2021 | Environmental Scientist

Meadowland Stream Mitigation Project, Phase I ESA | Resource Environmental Solutions, LLC | 2021 | Environmental Scientist

Arnold & Porter - Phase I ESA | Arnold & Porter | Gaithersburg, Maryland, United States | 2021 | Environmental Scientist

Puerto Rico Electric Power Authority (PREPA), Phase I ESAs | LUMA | 2021 | Document Writing Team Lead/Writer

Phase I ESA Kitty Hawk Wind LLC | Kitty Hawk Wind LLC | Virginia Beach, Virginia, United States | Environmental Scientist

Todd County, Tennessee Solar Site | esaSolar | Kentucky, United States | 2021 | Environmental Scientist

Stonefield Solar Project | Naturgy Candela Devco LLC | Cecilia, Kentucky, United States | 2021 | Environmental Scientist

Lincoln County, Tennessee Solar Site | esaSolar | Tennessee, United States | 2021 | Environmental Scientist

Graceland Solar Project | RWE Renewables Americas, LLC | Tennessee, United States | 2020 | Environmental Scientist

SE Titan, LLC | SE Titan, LLC | Texas, United States | 2020 | Environmental Scientist

SE Aragorn, LLC | SE Aragorn, LLC | Texas, United States | 2020 | Environmental Scientist

Lynnbrook Avenue Park and Stream Restoration | City of Chattanooga | Chattanooga, Tennessee, United States | 2020-2021 | Biologist/Assistant Project Manager.

Boeing - Project Edwards | Boeing | Nashville/LaVergne, TN | 2019 | Environmental Scientist

Lee Carolan CES

Environmental Specialist
33 years of experience · Lexington, Kentucky

Lee is a certified environmental specialist with more than 30 years of experience in federal/state departments and private consulting. She has managed large environmental projects providing Phase I and II Environmental Site Assessments, permitting, habitat mitigation, and construction management totaling approximately eight million dollars. She has managed NEPA projects for federal clients and assisted with management of NEPA related projects for department of transportation clients. Notable accomplishments include authoring the Environmental Assessment (EA), Finding of No Significant Impact (FONSI), Biological Evaluations (BE), and the Environmental Baseline Surveys (EBSs) for a land transfer of 1,000+ acres between Kentucky and Tennessee. Lee holds numerous certifications regarding hazardous materials sampling and has completed 500+ hours of specialized ecological training.

EDUCATION

NEPA Course for Environmental Professional Certification, Duke University, Durham, North Carolina

BS, Biological Science and Secondary Education, Arkansas Tech University, Russellville, Arkansas

CERTIFICATIONS & TRAINING

Evaluation Specialist, Ohio Environmental Protection Agency, Ohio, 2022

Certified Environmental Specialist CES16, OSHA, Washington , DC, 2011

CPR, AED, and Basic First Aid, American Safety & Health Institute Alexander Safety Solutions, Louisville, Kentucky, 2023

Fall Dendrology and Native Tree Identification, ACEC KYTC-Bernheim Forest, Bardstown, Kentucky, 2018

Spring Dendrology and Native Tree Identification, ACEC KYTC-Bernheim Forest, Bardstown, Kentucky, 2021

Asbestos Mgmt Planner Refresher Training, Resolution, Inc. , Nashville, Tennessee, 2021

Asbestos Mgmt Planner Refresher Training, Resolution, Inc. , Nashville, Tennessee, 2021

Online Confined Space Webinar, OSHA, Washington, DC, 2020

Project Management Workshop, ACEC KYTC, Frankfort, Kentucky, 2017

Changes to Nationwide Permits, Wetland Training Institute, Stevens Point, Wisconsin, 2017

Kentucky Governor's Conference on Energy and the Environment, Frankfort, Kentucky, 2016

401/404 Permitting, USACE, Louisville, Kentucky, 2004

Definition of Waters of the US: What the EPA's Long Awaited Rule Could Mean for You, USACE, Louisville, Kentucky, 2014

Best Practices for Developing a Spill Prevention, Control, and Countermeasure (SPCC) Plan, EPA, Atlanta, Georgia, 2014

15th Annual KY Environmental Permitting and Reporting Conference , Frankfort, Kentucky, 2012

Underground Storage Tanks Proposed Regulations and Rules, OSHA, Washington, DC, 2021

Earthquake Consortium: FEMA 154 Rapid Visual Screening of Buildings + ROVER, Frankfort, Kentucky, 2012

Earthquake Consortium: FEMA-Applied Technology Council (ATC)-20 Post Earthquake Safety Evaluation of Buildings, Memphis , Tennessee, 2021

Lead Inspector #LEII12020314, Resolution, Inc., Nashville, Tennessee, 2011

10-Hour Construction, OSHA, Frankfort, Kentucky, 2020

Asbestos Certification, TDEC, Frankfort, Kentucky, 2023

Lift and Fall Protection Training, Alexander Safety Solutions, Fort Mitchell, Kentucky, 2021

Project Manager's Boot Camp Xpress , Kentucky Transportation Cabinet, Frankfort, Kentucky, 2022

OSHA, 8-Hour Hazwoper Refresher Training, Online, Online, 2022

MEMBERSHIPS

President, Society of American Military Engineers, Kentuckiana Post

PROJECT EXPERIENCE

ENVIRONMENTAL REVIEW

Lexington Public Safety Building Renovations | Lexington-Fayette Urban County Government | Lexington, Kentucky | 2014 | Environmental Scientist

Lee performed a review and evaluation of existing environmental documentation for the renovation project of this center. Reviewed and discussed with the client and the subconsultant regarding further environmental documentation needs. The project involved the renovation and conversion of the former Youth Detention Facility to become the LFUCG Emergency Services Center.

Madison County Veterans Administration Center | Madison County Fiscal Court | Madison County, Kentucky | 2013 | Senior Environmental Biologist

Lee prepared the National Environmental Policy Act (NEPA) Environmental Assessment with a Finding of No Significant Impact (FONSI) for a 10-acre Veterans Center development. The project is a 3,000-square foot building with associated parking. Future projects are planned on the property. She performed a Phase I Environmental Site Assessment.

US 150 Corridor Study | Kentucky Transportation Cabinet | Boyle and Lincoln Counties, Kentucky | 2022-2023 | Senior Environmental Scientist

Lee provided a limited environmental overview to evaluate potential improvement concepts for US 150 between Danville and Stanford. Literature and database review, red flag ecological, hazmat, community, historic and archaeological, and socio-economic resources were studied. Mapping of the findings and a final environmental overview report were developed and submitted.

US 460 Scoping Study | Kentucky Transportation Cabinet | Magoffin County, Kentucky, United States | 2022-2023 | Senior Environmental Scientist

Lee provided a limited environmental overview to evaluate potential improvement concepts for the US 460 Corridor between KY 114 in Salyersville and US 23 in Paintsville, located in Magoffin and Johnson Counties. Literature and database review, red flag ecological, hazmat, community, historic and archaeological, and socio-economic resources were studied. Mapping of the findings and a final environmental overview report were developed and submitted.

Turkey Neck Bend Bridge Feasibility Study | Kentucky Transportation Cabinet | Monroe County | 2022-2023 | Senior Environmental Scientist

Lee provided a limited environmental overview to evaluate an array of alternatives for connecting KY 214 across the Cumberland River in Monroe County. Literature and database review, red flag ecological, hazmat, community, historic and archaeological, and socio-economic resources were studied. Mapping of the findings and a final environmental overview report were developed and submitted.

Extension of Bobo Road | KYTC | McCracken County, Kentucky | 2022-Present | Senior Environmental Scientist

Conducted a Phase I Environmental Site Assessment for an extension to the Megapark. Coordinated with site contacts to gather environmental site documentation and permits to determine any potential environmental concerns for the site. Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Used Project-Specific Scope of Work for compliance with policy, principles, and procedures, and prepare report using appropriate technical guidance and checklists. Prepared report for client review.

POWER RENEWABLE ENERGY, SOLAR

Critical Issues Analysis for Several Proposed Solar Facilities | Confidential | Lexington

Lee documented and assisted in review of local, state and federal regulations regarding potential environmental issues that would impact buildable areas within several proposed sites within the southern region.

ENVIRONMENTAL SITE ASSESSMENTS

Phase II Environmental Site Assessment | Toyota Motor Engineering and Manufacturing North America | Erlanger, Kentucky | 2017 | Senior Environmental Biologist

Lee performed site investigations for finding the sampling sites, oversight of utility marking, oversight of geotechnical sampling, and review of lab results and the final report. The project consists of a Phase II site assessment at the facility for the purposes of transferring a building to the Kentucky Department of Education. This project did not require submittal to the Kentucky Division of Waste Management. Water quality samples were taken on the site to characterize the potential for metals or volatile compounds.

Phase I/II Environmental Site Assessment | Toyota Motor Manufacturing | Scott County, Kentucky | 2016 | Project Manager and Senior Environmental Biologist

Lee performed Site Assessments--Phase I ASTM 1527-13 and Ecology and Habitat assessments on 54 acres for the placement of the new Visitor and Education Center for the new construction occurring at the plant (new SSOE building, paint plant, and the new engineering building). She performed a Phase II Site Assessment and asbestos sampling on the property. Due to the new construction of the buildings and removal of soils, soil sampling was performed on the construction demolition pile. Approximately 12 samples at depths of 6 inches to 12 feet were taken from the pile. This project did not require submittal to the Kentucky Division of Waste Management.

KY 210 | Kentucky Transportation Cabinet | LaRue, Green, and Taylor Counties, Kentucky | 2022 | Senior Environmental Scientist

Lee performed literature and database review, regulatory information gathering, and site reconnaissance for a proposed project exploring the feasible options to decrease congestion, reduce travel time, increase passing opportunities, and improve safety along a 24.81-mile section of KY 210 from KY 883 in Campbellsville to KY 1618 in Hodgenville. Bridges and culverts were assessed for threatened and endangered species and their potential habitats. Wetlands and streams were varied and documented as part of the reporting. A final report documenting the findings was submitted.

Phase I Environmental Site Assessment | Roy Switzer | Madison County, Kentucky | 2017 | Senior Environmental Biologist

Lee performed a site assessment, report verification, photographs, and overall report to the client. The project consists of a Phase I ASTM 1527-05 ESA on a one-acre parcel along Eastern Bypass for a new commercial property. It was suggested that Phase II be performed on the property prior to purchase.

Phase I/II Environmental Site Assessment | CJ May/Hard Corner Partners | Scott County, Kentucky | 2016 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I ESA on a 7-acre commercial site. Phase II and asbestos sampling were also performed, including removal of contaminated soil and replacement of gravel on a diesel oil spill. Approximately .10 acre. Performed tank recovery on the secondary property where tanks were buried but not closed in place.

May Commercial Group Environmental Assessment | May Commercial Group | Scott County, Kentucky | 2014 | Senior Environmental Biologist

Lee performed a Phase I ESA and ecological study on approximately 15 acres of previously farmed land. She performed soil sampling on a historic dump site, a potential threatened and endangered species habitat, and endangered species identification.

New Commercial Properties Environmental Assessments | Paint Lick, Kentucky | 2018 | Senior Environmental Biologist

Lee performed site assessment, report verification, photographs, and overall report for future new commercial construction. The project consists of a several Phase I ASTM 1527-13 ESAs on parcels within Paint Lick for new commercial properties and a sewage treatment plant. It was suggested that a Phase II be performed on one property before purchase.

Kentucky Community and Technical College System | Kentucky Finance Cabinet | Bell and Floyd Counties, Kentucky | 2018 | Senior Environmental Biologist

Lee performed an ASTM 1527-13 Standard Phase I Environmental Site Assessments.

Holbert Building | Kentucky Finance Cabinet | Montgomery County, Kentucky | 2018 | Senior Environmental Biologist

Lee performed an ASTM 1527-13 Standard Phase I Environmental Site Assessments for the KY Finance Cabinet/Facility Division of Engineering and Contract Administration.

High Grove Cottages | Rich Design Studios | Fayette County, Kentucky | 2017 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I ESA on a commercial property for residential retirement living on approximately 6 acres.

Family Dollar Stores | Family Dollar Stores | Jefferson, Wayne, and Scott Counties | 2014 | Senior Environmental Biologist

Lee performed Phase I ASTM 1527-13 Standard Site Assessment for commercial development and redevelopment.

Phase I Environmental Site Assessment | Billings Law Firm, PLLC and Legal Consulting Group, Ltd. | Fayette County, Kentucky | 2015 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I ESA on a commercial property for commercial redevelopment.

Louisville Loop | Kentucky Transportation Cabinet | Lexington, Kentucky | 2016 | Project Manager and Senior Environmental Biologist

Lee provided services for four sections of this project. For the Jefferson Memorial Section, she prepared a Biological Assessment for Indiana gray, northern long-eared bats, and running buffalo clover, conducted ecological field studies to document the USFWS threatened and endangered species for 6.5 miles of proposed multi-use trails. She conducted field investigations to determine US Army Corps of Engineers Nationwide 14 permit requirements to meet Section 404 requirements of the Clean Water Act of 1972. Her responsibilities included delineating streams and wetlands and coordinating with the US Army Corps of Engineers. For the Medora Section, Lee oversaw and developed a Categorical Exclusion Level II for a 1.3-mile section that included base studies and permitting activities. Her responsibilities included coordination with local agencies, District 5, KYTC, and the USACE. Cultural resource, ecology, hazmat, and socioeconomic studies were performed. For the Dodge Gap Section, Lee oversaw and developed a Categorical Exclusion Level II for the 2.5-mile section that included all base studies and permitting activities. Her responsibilities included coordination with local agencies, District 5, KYTC, and the USACE. The project included cultural resource, ecology, hazmat, and socioeconomic studies. For the Pond Creek Section, Lee oversaw and developed a Categorical Exclusion Level II for the 2.7-mile section that included base studies and permitting activities. Lee coordinated agencies and oversaw cultural resource, ecology, hazmat, and socioeconomic studies.

SR Turkeyfoot Phase I ASTM 2247-16 Standard for Forestland or Rural Property | Silicon Ranch | Garrard and Logan Counties, Kentucky | 2019-2021 | Project Manager

Lee conducted Phase I Environmental Site Assessment for two proposed solar panel farms. Utilized drone technology on projects that covered more than 2,000 acres.

I-69 | Kentucky Transportation Cabinet | Hopkins County, Kentucky | 2013 | Senior Environmental Biologist

Lee prepared Phase I ASTM 1527-05 Environmental Site Assessment for approximately 8 miles of proposed I-69. The assessment evaluated alternatives for improving the Wendell Ford (Western KY) Parkway and Edward Breathitt (Pennyrite) Parkway Interchange to be interstate compliant based on FHWA criteria/agreement. No recognized environmental conditions (RECs) were identified within the four independent corridors evaluated.

Great Acres Village Development | Anderson Communities | Lexington, Kentucky | 2018 | Senior Environmental Biologist

Lee performed an ecological survey and wrote an environmental site assessment for a FEMA Conditional Letter of Map Revision (CLOMR) on a 50-acre property. Her responsibilities included: Field and site visit, performing water quality sampling for dissolved oxygen, turbidity, and conductivity, assessing threatened and endangered species habitat, meeting, preparing a 404 USACE Individual permit with an attached mitigation and avoidance document, preparing a KDOW 401 Individual Water Quality permit, and correspondence with USFWS and SHPO.

Fresenius | API and ARC Companies | Berea, Kentucky | 2014 | Senior Environmental Biologist

Lee performed an ASTM Phase I Environmental Assessment on a 3.4-acre property for potential environmental impacts on a proposed Fresenius Dialysis location.

East Lake Gravity Sewer Replacement | Lexington-Fayette Urban County Government | Lexington, Kentucky | 2013 | Senior Environmental Biologist

Lee performed environmental oversight including an environmental assessment, threatened and endangered species habitat surveys, cultural/historical oversight, and correspondence/meetings with regulatory agencies such as USACE, KDOW, and USFWS regarding the project. She also prepared the categorical exclusion.

Bluegrass Green Phase I ASTM 2247- 16 Standard for Forestland or Rural Property | Redeux Energy Partners LLC | Ohio County, Kentucky | 2022 | Task Manager

Lee conducted Phase I ESA for an energy project on an approximately 500-acre former mining site. Desk investigation, environmental document search, and a site visit were conducted. The energy project has yet to be constructed at the abandoned surface and underground mine location.

Kentucky Statewide Environmental Services | Kentucky Transportation Cabinet | Statewide, Kentucky | 2016 | Project Manager and Senior Environmental Biologist

Lee oversaw and participated in developing technical studies in Ecology/Botany/Zoology/Wetlands, UST/HAZMAT, and KDOW/USACE permits. Performed Biological Assessments and prepared Aquatic/Terrestrial, Wetlands, UST/HAZMAT, and permitting documentation. Projects consisted of new alignment alternatives, upgrading existing facilities, and continuation of existing KYTC projects by other consultants.

Kentucky Early Warning Systems (KEWS) Tower | Kentucky Finance Cabinet | Jackson County, Kentucky | 2019 | Senior Environmental Biologist

Lee was a liaison between the Federal Emergency Management Agency (FEMA) and US Forest Service - Daniel Boone National Forest (DBNF) to prepare NEPA Documentation for a replacement tower on Fire Tower Road. This project entailed preparing an Environmental Assessment to satisfy FEMA requirements and a Categorical Exclusion to address US Forest Service regulations. Integral to these actions were conducting Section 106 consultation, including archaeological survey and Tribal Consultation, as well as Section 7 consultation and coordination of impacts to migratory birds with the US Fish and Wildlife Service (USFWS). She coordinated with other appropriate state and federal agencies and prepared NEPA documentation of findings. This work included a Special Use Permit for applying herbicides on the site.

ASTM Standard Phase I ESAs and Building Asbestos and Mold Surveys | Various Private Clients | Anderson, Boone, Bourbon, Boyle, Clark, Fayette, Garrard, Jefferson, Jessamine, Madison, Mercer, Powell, Scott, and Wayne Counties, Kentucky | 2014-2021 | Senior Environmental Biologist

Lee performed surveys and conducted sampling in homes and/or businesses and documented results within detailed reports.

I-75/ I-275 Interchange | KYTC Central Office Highway District 6 | Boone County, Kentucky | 2022 | Senior Environmental Scientist

Lee performed a Phase I ESA conducted in conformance with the requirements of ASTM Designation E1527-21 and ASTM E1527-13 on a safety, and mobility, project for interchanges and an approximate five-mile section. She performed desktop and records reviews, site reconnaissance, property owner interviews, local and state regulatory interviews, and detailed reporting of the overall site assessment. Subject and adjacent properties were assessed for potential impacts to the project area.

Dawkins Line Trail | Kentucky Transportation Cabinet | Johnson and Magoffin Counties, Kentucky | 2013 | Senior Environmental Biologist

Lee performed environmental documentation and review for the approximate 20-mile trail.

ASTM E2247-16 Standard Process for Forestland or Rural Property | US Forestry Services | Garrard and Logan Counties, Kentucky | 2019 | Senior Environmental Biologist

Lee conducted this assessment for two proposed solar panel farms. She performed the work with the assistance of drone technology, covering more than 2,000 acres.

Herndon House Renovation | Kentucky Transportation Cabinet | Madison County, Kentucky | 2014 | Senior Environmental Biologist

Lee performed environmental oversight, documentation, and review for the renovation of Pleasant View (Herndon House), including oversight of asbestos survey and abatement, archaeological Phase I, and continuing renovation.

US 641/SR 54 Reconstruction, Calloway County, KY (Senior Environmental Biologist (Palmer Engineering), 2019 | Kentucky Transportation Cabinet | Calloway County, Kentucky | 2019 | Senior Environmental Biologist-Palmer Engineering

Lee conducted a UST/HazMat study and review of CE III documents for the reconstruction of approximately eight miles of roadway. Recognized environmental conditions (RECs) were identified along the existing corridor as well as along four, off-corridor alignments. Findings were documented in a Phase I Environmental Site Assessment for the project that was considered during alternative evaluation and selection. Impacts to streams, wetlands, ponds, and endangered species were evaluated and documented in an Ecological Assessment report. Assessed stream function and delineated wetlands for preparation of Letter of Permission (LOP) permit for the US Army Corps of Engineers and Water Quality Certification for Kentucky Division of Water. (Item No. 1-314.20)

Medical Facility Environmental Site Assessments | ARC Construction Management, LLC | Christian, Fayette, Hardin, Madison, Wayne, and Warren Counties | 2016 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I Environmental Site Assessments for medical facilities development in Christian, Fayette, Hardin, Madison, Wayne, and Warren Counties in Kentucky. Also scoped were stream and wetland assessments, asbestos sampling and mold observation/sampling, and reliance letters. Samples were sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP).

Weather Tower Site Assessments | Kentucky Finance Cabinet | Fayette and Jackson Counties, Kentucky | 2018 | Senior Environmental Biologist

Lee performed site visits and all documentation for the project to replace or supplement existing weather towers. These projects supplement the new radio systems for the counties' Emergency Operation Centers. Correspondence with USFS, USFWS, SHPO, and FEMA was included.

Dawkins Line Trail | Kentucky Transportation Cabinet | Magoffin and Breathitt Counties, Kentucky | 2013 | Senior Environmental Biologist

Lee provided project oversight by reviewing archaeological documentation, project scope, design, and potential impacts on streams and threatened and endangered species habitats. Prepared the clearinghouse documentation.

Ecton Park Gravity Sewer Replacement | Lexington-Fayette Urban County Government | Lexington, Kentucky | 2012 | Project Manager and Senior Environmental Biologist

Lee conducted routine ecological field studies to document natural resources along multiple streams in multiple states for USACE 404 and Water Quality Certification permitting. Conducted fieldwork documenting and delineating stream crossings, waterfalls, springs, seeps, wetlands, and threatened and endangered species habitats. Performed Section 7 Consultation with USFWS regarding threatened, endangered, and state-listed species. Provided oversight of Phase I Archaeological Surveys.

Emergency Operations Center | Powell County Fiscal Court | Powell County, Kentucky | 2013 | Senior Environmental Biologist

Lee authored the Environmental Assessment, the Finding of No Significant Impact, Biological Evaluations, and the Environmental Baseline Surveys for an approximate 2.69-acre emergency operations center. She performed threatened and endangered species file reviews and conducted terrestrial, botanical, and aquatic surveys. Lee also provided oversight on all correspondence related to archaeology/cultural/historical, and air quality.

Emergency Operations Center | City of Frankfort | Madison County, Kentucky | 2013 | Senior Environmental Biologist

Lee authored the Environmental Assessment, the Finding of No Significant Impact, Biological Evaluations, and the Environmental Baseline Surveys for an approximate 3,000-square-foot Emergency Operations Center. Performed threatened and endangered species file reviews and conducted terrestrial, botanical, and aquatic surveys. Provided oversight on all correspondence related to archaeology/cultural/historical, traffic, and air quality.

Kentucky State University | MANTRA KSU I LLC | Franklin County, Kentucky | 2014 | Senior Environmental Biologist

Lee was a reviewer for the Phase I Environmental Site Assessment to identify the presence or likely presence, use, or release of hazardous substances or petroleum products based on ASTM Practice E 1527-13 as a recognized environmental condition (REC) on undeveloped property. No indication of an REC was visually observed on the subject property or adjoining properties during site reconnaissance.

Kentucky Statewide Environmental Services | Kentucky Transportation Cabinet | Statewide, Kentucky | 2019-Ongoing | Project Manager and Senior Environmental Biologist

Lee performed 14 Biological Assessments and USACE permits. She conducted field studies on the presence of endangered species and other environmental concerns. Species identified included Indiana bat, gray bat, and northern long-eared bat. Lee coordinated with USACE, USFWS, and KDOW to identify corridor type for small bridge replacement projects.

KY 15 | Kentucky Transportation Cabinet | Wolfe County, Kentucky | 2015 | Project Manager and Senior Environmental Biologist

Lee oversaw and participated in a Biological Assessment for Indiana, gray, northern long-eared bats, and running buffalo clover. She conducted ecological field studies to document the USFWS threatened and endangered species along 2,700 feet of proposed road improvement. (Item No. 10-162.00)

KY 30 | Kentucky Transportation Cabinet | Jackson and Owsley Counties, Kentucky | 2019 | Senior Environmental Biologist

Lee conducted ASTM 1527-13 Standard Phase I ESA for hazardous materials and prepared Water Quality Permit Addendum for 10.46 miles of roadway reconstruction. Water Quality Permit No. LRL-2017-01152 Addendum completed in 2019.

Bluegrass Green Phase I Environmental Site Assessment | Redeux Energy Partners, LLC | Ohio County | 2022 | Senior Environmental Scientist

Lee performed a Phase I Environmental Site Assessment (ESA) report in conformance with the requirements of ASTM International Designation E2247-16 of the 500-acre area located approximately 1.35 miles southwest of the intersection of Kentucky (KY) Route 85 along Peabody Haul Road in Ohio County, Kentucky.

ENVIRONMENTAL PERMITTING SUPPORT

I-69 Ohio River Crossing (Evansville, IN to Henderson, KY) | Kentucky Transportation Cabinet | Henderson County, Kentucky, to Henderson County, Indiana | 2022-Present | Senior Environmental Scientist

Lee provides Environmental overview of the NEPA document during design and permitting support by reviewing the permits granted with conditions attached for the Design Build Team.

ECOLOGY SURVEYS

Smithland Bridge Osprey Monitoring | Kentucky Transportation Cabinet | Kentucky

Lee monitored the osprey nests on the existing Smithland Bridge and in the surrounding areas during bridge construction of the replacement bridge. An eagle's nest within the area was also monitored.

Hazard Airport | Hazard-Perry County Airport Board | Perry County, Kentucky | Senior Environmental Biologist

Lee provided a UST/Hazmat overview and ecological studies for multiple site improvements. The improvements included extending the parallel taxiway the full length of the runway and acquiring 6.88 acres of privately owned adjacent land. Responsibilities included a UST/Hazmat overview and an overview of ecological studies.

Fulton Road Extension | City of Winchester, Kentucky | Clark County, Kentucky | 2020 | Senior Environmental Biologist

Lee conducted routine ecological fieldwork documenting and delineating stream crossings and wetlands for this roadway improvement project. She corresponded with USFWS and state DOW/KDFWR/DEP agencies. Lee prepared and submitted permit applications for USACE 404, Water Quality 401, and Floodplain Construction Permits. Water Quality Permit Number—LRL-2020-00610-mlk.

Various Infrastructure Projects | Lexington-Fayette Urban County Government | Lexington, Kentucky | 2016 | Project Manager and Senior Environmental Biologist

Lee conducted routine ecological field studies for various improvement projects to infrastructure systems including water, sewer, pipelines, buildings, roads, and bridges. She documented natural resources in the project areas along multiple streams for USACE 404 and Water Quality Certification permitting. Lee conducted fieldwork, documenting and delineating stream crossings, waterfalls, springs, seeps, wetlands, and threatened and endangered species habitats. She performed Section 7 Consultation with USFWS regarding threatened, endangered, and state-listed species. Conducted ASTM 1527-13 Standard Phase I ESA's.

Various Infrastructure Projects | Various Private Clients | States of Kentucky, Tennessee, Ohio, North Carolina, South Carolina, South Dakota, Texas, and Washington | 2003-2021 | Project Manager and Senior Environmental Biologist

Lee conducted routine ecological field studies to document natural resources in the project areas along multiple streams in multiple states for USACE 404 and Water Quality Certification permitting. Conducted fieldwork documenting and delineating stream crossings, waterfalls, springs, seeps, wetlands, and threatened and endangered species habitats. Performed Section 7 Consultation with USFWS regarding threatened, endangered, and state-listed species. Provided oversight of Phase I Archaeological Surveys.

Fort Boone Pump Station | City of Frankfort | Franklin County, Kentucky | Senior Environmental Biologist

Lee performed Phase I ASTM 1527-05 ESA, conducting routine ecological field studies to document natural resources along Big Run Creek for USACE 404 and Water Quality Certification permitting. She served as project manager who conducted fieldwork documenting stream crossings, waterfalls, springs, seeps, wetlands, and threatened and endangered species habitats.

BIOLOGICAL SURVEYS

Old Henry Road Extension | Kentucky Transportation Cabinet | Jefferson and Oldham Counties, Kentucky | 2015 | Project Manager and Senior Environmental Biologist

Lee conducted field investigations for Indiana, gray, northern long-eared bats, Clubshell, and running buffalo clover for a Biological Assessment. She conducted ecological field studies to document the USFWS threatened and endangered species along 1.6 miles of proposed road improvement. (Item No. 5-367.20)

KY 1303 Turkeyfoot Road | Kentucky Transportation Cabinet | Kenton County, Kentucky | 2018 | Senior Environmental Biologist

Lee was responsible for identifying potential for hazardous waste impacts on the potential project and assisting with the ecological overview and overall documentation. The project consists of a planning study to identify ways to improve safety, and reduce congestion at the intersections of KY 1303 and Town Center Blvd. and KY 1303 and Thomas More Parkway. The project study area extends from Barnwood Drive to the bridge over I-275 in Crestview Hills.

KY 1301 | Kentucky Transportation Cabinet | Hickman County, Kentucky | 2016 | Senior Environmental Biologist

Lee conducted field surveys and reviewed the Biological Assessment on KY 1301 over Hurricane Branch. She completed the Biological Assessment to determine potential impacts on federally listed species or their critical habitats (Indiana, gray, northern long-eared bats) in support of a bridge replacement project. (Item No. 1-1158.00)

KY 280 | Kentucky Transportation Cabinet | Calloway County, Kentucky | 2015 | Project Manger and Senior Environmental Biologist

Lee prepared a Biological Assessment report for Indiana, gray, and northern long-eared bats along 9.2 miles of KY 280 for road safety improvements. The Highway safety project was 9.2 miles in length. (Item No. 1-9000)

KY 262 | Kentucky Transportation Cabinet | Hopkins County, Kentucky | 2015 | Project Manager and Senior Environmental Biologist

Lee completed a Biological Assessment to determine potential impacts on Waters of the United States and federally listed species or their critical habitats (Indiana, gray, northern long-eared bats) in support of a bridge replacement project. (Item No. 2-1079.00)

KY 205 | Kentucky Transportation Cabinet | Wolfe County, Kentucky | 2014 | Project Manager and Senior Environmental Biologist

Lee prepared a Biological Assessment report for Kentucky arrow darter, Indiana, gray, northern long-eared and Virginia big-eared bats along 6.3-mile road improvement from the Wolfe/Breathitt County line to the Mountain Parkway, conducted an ecological field study and performed water quality sampling for dissolved oxygen, turbidity, and conductivity. Conducted field investigations to determine the requirement of the US Army Corps of Engineers Letter of Permission permit to meet Section 404 requirements of the Clean Water Act of 1972. Responsibilities include delineating streams and wetlands and coordinating with the US Army Corps of Engineers. (Item No. 10-8101.00)

KY 192 to KY 80 Frontage Road | Kentucky Transportation Cabinet | Laurel County, Kentucky | 2014 | Senior Environmental Biologist

Lee prepared a Biological Assessment report for Indiana, gray, northern long-eared bats and six species of Cumberlandian mussels. Conducted ecological field studies to document the USFWS threatened and endangered species along a 2.5-mile proposed frontage road in London, KY. (Item No. 11-139.00)

KY 146 | Kentucky Transportation Cabinet | Henry County, Kentucky | 2016 | Senior Environmental Biologist

Lee conducted field surveys and reviewed a Biological Assessment to determine potential impacts on federally-listed species or their critical habitats (Indiana, gray, northern long-eared bats, Running buffalo clover, Braun's rockcress, and Fanshell mussel). The highway reconstruction project is 7.7 miles in length. (Item No. 5-8300.00)

KY 100 | Kentucky Transportation Cabinet | Simpson and Allen Counties, Kentucky | 2016 | Senior Environmental Biologist

Lee conducted field surveys and reviewed the completed Biological Assessment to determine potential impacts on federally-listed species or their critical habitats (Indiana, gray, northern long-eared bats, ten mussel species) along 3 miles for road improvements. (Item No. 3-0319.00)

KY 92 | Kentucky Transportation Cabinet | Wayne County, Kentucky | 2015 | Project Manager and Senior Environmental Biologist

Lee managed and developed a Biological Assessment for Indiana, gray, and northern long-eared bats, and conducted ecological field studies to document the USFWS threatened and endangered species along 2.5 miles of proposed road improvement. (Item No. 8-394.00)

Bridge Replacements | Clark County Fiscal Court | Clark County, Kentucky | 2013 | Senior Environmental Biologist

Lee performed Indiana Bat Habitat Assessment and Kentucky Division of Water Floodplain Construction permits for several emergency bridge replacements.

US 68 Bridges over Lake Barkley and KenLake | Kentucky Transportation Cabinet | Trigg County, Kentucky | 2016 | Senior Environmental Biologist

Conducted osprey observation during the spring and summer for the construction of the bridges over Lake Barkely and KenLake. Required materials were a spotting scope and writing observations down everytime there movement on active nests or the building of nest for removal prior to egg laying to keep the construction schedule for the contractors. Co-authored a paper for the Journal of Raptor Research titled: Ospreys (Pandion haliaetus) Lay Eggs Despite Nest Removal During Pre-Incubation Period.

KY 280 | Kentucky Transportation Cabinet | Calloway County, Kentucky | 2015 | Senior Environmental Biologist and Project Manager

Lee managed and prepared a Biological Assessment report for Indiana, gray, and northern long-eared bats along 9.2 miles for road safety improvements. The Highway safety project was 9.2 miles in length. (Item No. 1-9000)

KY 205 | Kentucky Transportation Cabinet | Wolfe County, Kentucky | 2014 | Senior Environmental Biologist and Project Manager

Lee managed and prepared a Biological Assessment report for Kentucky arrow darter, Indiana, gray, northern long-eared, and Virginia big-eared bats and surveyed for the white-haired goldenrod along 6.3-mile road improvement, conducted an ecological field study, and performed water quality sampling for dissolved oxygen, turbidity and conductivity. Conducted field investigations to determine the requirement of US Army Corps of Engineers Letter of Permission permit to meet Section 404 requirements of the Clean Water Act of 1972. Responsibilities include delineating streams and wetlands and coordinating with the US Army Corps of Engineers. (Item No. 10-8101.00)

KY 100 | Kentucky Transportation Cabinet | Simpson and Allen Counties, Kentucky | 2016 | Senior Environmental Biologist

Lee conducted field surveys and reviewed the completed Biological Assessment to determine potential impacts to federally-listed species or their critical habitats (Indiana, gray, northern long-eared bats, ten mussel species) along 3 miles of KY 100 road improvement project. (Item No. 3-0319.00)

Old Henry Road Extension | Kentucky Transportation Cabinet | Oldham and Jefferson Counties, Kentucky | 2015 | Senior Environmental Biologist

Lee conducted field investigations for Indiana, gray, northern long-eared bats, Clubshell, and running buffalo clover for a biological assessment. She conducted ecological field studies to document the USFWS threatened and endangered species along 1.6 miles of proposed road improvement. (Item No. 5-367.20)

Cooper Chapel Road | Kentucky Transportation Cabinet | Jefferson County, Kentucky | 2017 | Senior Environmental Biologist

Lee conducted fieldwork for the Biological Assessment to determine potential impacts on federally-listed species or their critical habitats (Indiana, gray, northern long-eared bats, Kentucky glade cress). Identification of glade cress populations required the development of minimization and mitigation measures in support of a Biological Opinion from USFWS. (Item No. 5-0404.01)

ANALYSIS, PERMITTING AND REGULATORY COMPLIANCE

Kentucky Enterprise Industrial Park | City of Pikeville, Kentucky | Pike County, Kentucky | 2017 | Senior Environmental Biologist

Lee conducted investigations to determine US Army Corps of Engineers Individual and Nationwide 14 permit to meet Section 404 requirements of the Clean Water Act of 1972 for a boat ramp in the Marion Branch Industrial Park Access Road Bridge. Her responsibilities included delineating impacts and coordinating with the US Army Corps of Engineers. Water Quality Permit No. LRL-2018-01078.

Kentucky River Lock 1 Upper Guide Wall Repairs, Rehabilitation of Dam 3, and Renovation of Locks 1, 2, 3, and 4 | Franklin, Henry, Carroll, and Owen Counties, Kentucky | 2022-Present | Senior Environmental Scientist

Lee is responsible for the USACE 404 and 401 Water Quality permitting for demolition and construction at both Lock and Dam 2 & 3. Her responsibilities were to contact local, state and federal agencies regarding the project and to help follow up on getting the appropriate state and federal regulations passed for the project to proceed.

South Fork Little River Flood Control Structure | Hopkinsville, KY, | 2022-Present | Senior Environmental Scientist

Lee provided oversight and preparation of the USACE 404 and 401 Water Quality permitting for the flood control structure project. Her responsibilities included preparing applications for submittal to the state and federal agencies, public notice for the local newspaper and external contact when needed. Lee led staff for field review of streams and wetlands in the location of the structure. She organized the cultural historic and archaeological review.

HAZARDOUS MATERIALS ASSESSMENT AND ABATEMENT

Lifestyle Communities | Lifestyle Communities | Scott County, Kentucky | 2011 | Senior Environmental Biologist

Performed an ASTM Phase I Environmental Site Assessment and an update on approximately 19 acres. This document included performing a stream, wetland, and sinkhole assessment on the property as well as performing assessments and documentation on potential threatened and endangered species habitats.

KY 237 | Kentucky Transportation Cabinet | Boone County, Kentucky | 2018 | Senior Environmental Biologist

Lee performed a UST/HAZMAT review of the proposed multi-use path that was to be constructed along the road for safety purposes. The document was prepared for Boone County Public Works. (Item No. 6-440.00).

I-70 Bridge Improvements | Ohio Department of Transportation | Belmont County, Ohio | 2013 | Senior Environmental Biologist

Lee performed an Asbestos-Containing Materials (ACM) survey and provided the ACM report for the rehabilitation, resurfacing, and minor repair of two bridges. The project concluded that median barriers and guardrails needed to be replaced as well as other minor repairs.

Graves Road Interchange | Kentucky Transportation Cabinet | Boone County, Kentucky | 2020 | Senior Environmental Biologist

Lee performed an asbestos survey on five homes for right-of-way purchase and demolition. Samples were taken for analysis and sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). Two Palmer inspectors reviewed the lab analysis reports and submitted this lab report to the client. The work was conducted by a USEPA-credentialed asbestos building inspector with Kentucky accreditation.

Asbestos and Mold Sampling | City of Richmond, Kentucky | Richmond, Kentucky | 2019 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I Environmental Site Assessments for medical facilities development in Christian, Fayette, Hardin, Madison, Wayne, and Warren Counties in Kentucky. Also scoped were stream and wetland assessments, asbestos sampling and mold observation/sampling, and reliance letters. Samples were sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP).

Buildings Asbestos and Mold Survey | Eastern Kentucky University | Richmond, Kentucky | 2017 | Senior Environmental Biologist

Lee managed and performed asbestos and mold sampling events for the demolition and renovations of five homes and three buildings on the Eastern Kentucky University campus. Results and reports were provided for each structure.

Phase I Environmental Site Assessments | Kentucky Community and Technical College Systems | Bell and Floyd Counties, Kentucky | 2018 | Senior Environmental Scientist

Lee performed two separate ASTM 1527-13 Standard Phase I Environmental Site Assessments.

API Phase I Environmental Site Assessments | ARC Companies and Arc Construction Management LLC | Christian, Fayette, Hardin, Madison, Wayne, and Warren Counties, Kentucky | 2016 | Senior Environmental Biologist

Lee performed ASTM 1527-13 Standard Phase I Environmental Site Assessments for medical facilities development. The work included stream and wetland assessments, asbestos sampling and mold observation/sampling, and reliance letters. Samples were sent to a United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP).

Knights Inn Asbestos Survey | Gayatri Engerprizes, LLC (dba American Inn) | Fayette County, Kentucky | 2009 | Asbestos Inspector

Lee inspected asbestos in six buildings with approximately 36,000 total square feet; approximately 110 samples were taken for analysis and sent to a United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). Firm inspectors reviewed the lab analysis reports and submitted a report containing the method, findings, conclusions, recommendations, and lab reports. The work was conducted by USEPA-credentialed asbestos building inspectors with Kentucky accreditation.

KY 30 | Kentucky Transportation Cabinet | Jackson and Owsley Counties, Kentucky | 2016-2019 | Senior Environmental Biologist

Lee conducted ASTM 1527-13 Standard Phase I ESA for hazardous materials and prepared Water Quality Permit Addendum for 10.46 miles of roadway reconstruction. Water Quality Permit No. LRL-2017-01152 Addendum was completed in 2019.

Asbestos and Mold Surveys | Multiple Public Agencies | Clark, Estill, Fayette, Jackson, and Powell Counties, Kentucky | 2012-2019 | Senior Environmental Biologist

Lee performed asbestos surveys and mold sampling on 20 parcels for renovation and/or demolition of structures. Samples (from 2 to 200) were taken for analysis and sent to a US EPA laboratory. Inspectors reviewed the lab analysis reports and submitted reports containing the method, findings, conclusions, recommendations, and the lab reports. All work was conducted by USEPA-credentialed asbestos building inspectors with Kentucky accreditation.

US 119 | Kentucky Transportation Cabinet | Letcher County, Kentucky | 2017 | Senior Environmental Biologist

The project consists of reconstruction of a 1.75-mile section of US-119, known as Section 1, in Letcher County east of Whitesburg. Responsibilities included: Field and site visits for a UST/Hazmat Phase I report prepared to ASTM 1527-13 standards, conducting ecological field studies, and performing water quality sampling for dissolved oxygen, turbidity, and conductivity. Wrote the Hazardous Materials report and co-wrote the ecological report and the biological assessment.

KY 922/Newtown Pike Extension | L&M Asphalt | Fayette County, Kentucky | 2016 | Senior Environmental Biologist

Conducted soil sampling for removal and replacement of soils on a residential area and on various roadway projects. Six to eight stockpiles in various locations in Lexington were sampled as well as the soils being removed from the extension site. The sampling included more than 100,000 CY of soils.

Alabama Avenue Asbestos Containing Materials Survey | Ohio Department of Transportation | Ohio | 2018 | Senior Environmental Biologist

Lee performed an Asbestos-Containing Materials (ACM) survey and provided the ACM report for the rehabilitation of LA 2912 bridge on Alabama Avenue over Newman Creek. The project is to rehabilitate the existing deteriorated prestressed concrete box beam bridge. The rehabilitation will include replacing the non-composite box beams with new, composite box beams and a new concrete deck. Approach slabs are to be constructed, and the existing abutments will be converted to semi-integral abutments. TST guardrail shall be utilized on the proposed bridge. The bridge is located approximately ½ mile south of Orrville Street in Lawrence Township. (STA-C0314-LA 2912/PID 104662)

Alex Bell Bridge Rehabilitation | Ohio Department of Transportation | Montgomery County, Ohio | 2016 | Senior Environmental Biologist

Lee performed an Asbestos-Containing Materials (ACM) survey and provided the ACM report for the rehabilitation of the bridge on Alex Bell Road in Montgomery County, OH. The project is to rehabilitate the existing deteriorated prestressed concrete box beam bridge. The rehabilitation will include replacing the non-composite box beams with new, composite box beams and a new concrete deck. Approach slabs are to be constructed, and the existing abutments will be converted to semi-integral abutments. TST guardrail shall be utilized on the proposed bridge. The bridge is located approximately ½ mile south of Orrville Street in Lawrence Township. (MOT-CR0078-05112/PID 101937)

Buildings Asbestos and Mold Survey | City of Winchester | Winchester, Kentucky | 2019 | Senior Environmental Biologist

Lee performed an asbestos survey on five parcels for renovation and/or demolition of structures. Approximately 250 samples were taken for analysis and sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). Palmer inspectors reviewed the lab analysis reports and submitted a letter report containing the method, findings, conclusions, recommendations, and lab reports. The work was conducted by USEPA-credentialed asbestos building inspectors with Kentucky accreditation.

Buildings Asbestos and Mold Survey | Eastern Kentucky University | Richmond, Kentucky | 2017 | Senior Environmental Biologist

Lee managed and performed asbestos and mold sampling events for the demolition and renovations of five homes and three buildings on the ECU campus. Results and reports were provided for each structure.

Buildings Asbestos Survey | Kentucky Community Economic Development Agency | Estill County, Kentucky | 2012 | Senior Environmental Biologist

Lee performed an asbestos survey on five parcels for renovation and/or demolition of structures. Approximately 70 samples were taken for analysis and sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). Palmer inspectors reviewed the lab analysis reports and submitted a letter report containing the method, findings, conclusions, recommendations, and lab reports. The work was conducted by USEPA-credentialed asbestos building inspectors with Kentucky accreditation.

Buildings Asbestos Survey | Lexington-Fayette Urban County Government | Lexington, Kentucky | 2014 | Senior Environmental Biologist

Lee performed an asbestos survey of two structures on Walhampton Drive in Lexington. The structures were surveyed and materials were tested for Asbestos-Containing Materials (ACMs) on two single-family residences listed for demolition. Materials were sent to a certified lab, and abatement of materials in one residence was recommended.

Buildings Asbestos Survey | Kentucky Economic Development Agency | Jackson County, Kentucky | 2012 | Senior Environmental Biologist

Lee performed an asbestos survey on six parcels for renovation and/or demolition of structures. Approximately 200 samples were taken for analysis and sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). A Palmer inspector reviewed the lab analysis reports and submitted a letter report containing the method, findings, conclusions, recommendations, and lab reports. The work was conducted by a USEPA-credentialed asbestos building inspector with Kentucky accreditation.

Pipeline Asbestos Study | Applied Geology and Environmental Science, Inc. | Powell County, Kentucky | 2012 | Senior Environmental Biologist

Lee performed an asbestos survey on a natural gas pipeline for replacement. Two samples were taken for analysis and sent to the United States Environmental Protection Agency (USEPA) accredited laboratory (National Voluntary Laboratory Accreditation Program, or NAVLAP). A Palmer inspector reviewed the lab analysis reports and submitted this lab report to the client. The work was conducted by a USEPA-credentialed asbestos building inspector with Kentucky accreditation.

I-75/KY 3552 Interchange | Kentucky Transportation Cabinet | Scott County, Kentucky | 2014 | Senior Environmental Biologist

Lee performed a UST/HazMat review for the Interchange project and developed Base Study to document findings that identified recognized environmental conditions that could affect right-of-way acquisition or construction. Performed soil sampling on two historic dumpsites within the corridor and right of way. Conducted field review for threatened and endangered species habitat, assessed streams, and delineated wetlands along the corridor. Prepared a Biological Assessment of potential impacts on Indiana and northern long-eared bats, and running buffalo clover.

I-264/US 42 | Kentucky Transportation Cabinet | Jefferson County, Kentucky | 2014 | Senior Environmental Biologist

Lee performed UST/HazMat review for the project considering underground storage tanks and other potentially hazardous materials that may impact the site. She identified potential ecological impacts of the interchange project.

KY 15 | Kentucky Transportation Cabinet | Perry County, Kentucky | 2017 | UST Specialist

Lee performed a Phase I ASTM 1527-05 Environmental Site Assessment on a corridor where potential recognized environmental conditions (RECs) were located. Operating gas stations, historic gas stations, and dry cleaners were identified as RECS and required additional site assessment. She performed Phase II ESA on the Exxon site and conducted field investigations to document water-related impacts addressed in US Army Corps of Engineers' Letter of Permission and KY Division of Water 401 Water Quality Certification applications. Her responsibilities included delineating streams and wetlands and coordinating with the agencies.

SOIL SAMPLING

KY 922/Newtown Pike Soil Sampling | Kentucky Transportation Cabinet | Fayette County, Kentucky | 2016 | Senior Environmental Biologist

Lee conducted soil sampling for removal and replacement of soils on a residential area and on various roadway projects. Six to eight stockpiles in various locations were sampled as well as the soils removed from the extension site. The sampling included more than 100,000 CY of soils.

STREAMS AND WETLANDS

KY 56 | Kentucky Transportation Cabinet | Union County, Kentucky | 2015 | Senior Environmental Biologist

Lee performed stream habitat assessment, wetland delineation, and threatened and endangered species habitat assessments for 5.3 miles of proposed road improvement and reconstruction. She conducted ecological field studies to document the USFWS threatened and endangered species along the corridor and prepared a Biological Assessment for Indiana, gray, and northern long-eared bats. Lee coordinated with USFWS for the development of a project-specific Conservation MOA for the removal of bat habitat. Conducted field investigations to delineate streams and wetlands to address impacts on Waters of the US as regulated by the US Army Corps of Engineers (USACE). Prepared needed project permits including USACE Letter of Permission permit to meet Section 404 requirements; 401 Water Quality Certification permit and floodplain construction permit for the Kentucky Division of Water. (Item No. 2-310.20)

I-65 Interchange | Bizzack Construction | Bullitt County, Kentucky | 2019 | Senior Environmental Biologist

Lee performed a stream and wetland delineation and prepared permits for impacts associated with an excess material site needed to construct a new interchange on I-65. A Section 404 Letter of Permission permit application for the US Army Corps of Engineers and a Section 401 Water Quality Certification application for the Kentucky Division of Water were developed and approved. Water Quality Permit Addendum No. LRL-2018-634-ncc; Addendum completed in 2020.

East Kentucky Corrections Complex | Kentucky Finance Cabinet | Morgan County, Kentucky | 2015 | Senior Environmental Biologist

Lee provided services to resolve erosion issues that included the repair and replacement of culverts. She contacted USACE and held a field meeting to investigate the site for potential jurisdictional waters of the United States. Her investigation determined that unnamed tributaries from the Lewis Branch watershed would be impacted by the project. Coordinated with USACE to ensure impacts were avoided.

CR-1127 Straight Fork Road | Lewis County Fiscal Court | Lewis County, Kentucky | 2012 | Senior Environmental Biologist

Lee performed a stream habitat assessment and wetland and stream delineation for this roadway improvement. She provided oversight of cultural/historical/archaeological review and documentation. Lee submitted permit applications for USACE 404 NWP, WQC 401, and floodplain construction permits. Lee submitted an MOA for gray bat habitat removal.

US 460 | Kentucky Transportation Cabinet | Montgomery County, Kentucky | 2016 | Senior Environmental Biologist

Performed threatened and endangered species habitat survey, and stream and wetland determinations along approximately 7 miles of roadway. Conducted field investigations to determine requirement of US Army Corps of Engineers permit to meet Section 404 requirements of the Clean Water Act of 1972. Responsibilities include delineating streams and wetlands and coordinating with the US Army Corps of Engineers. (Item No. 7-250.00)

US 119 Section 1 | Letcher County, Kentucky | 2020 | Senior Environmental Biologist

Provided review of CE III documentation for this project that consisted of reconstruction of a 1.75-mile section of US 119, known as Section 1, in Letcher County east of Whitesburg. Proposed work on Section 1 began at mile marker 17.15 and ended at mile marker 18.9. This included assessing the excess material sites. Responsibilities included: review of CE III documentation, field and site visits for a UST/Hazmat Phase I report, conducting ecological field studies, and performing water quality sampling for dissolved oxygen, turbidity, and conductivity. Co-wrote the ecological report and the Biological Assessment.

KY 32 | Kentucky Transportation Cabinet | Rowan and Elliot Counties, Kentucky | 2015 | Senior Environmental Biologist and Project Manager

Biological Assessment performed under Letter Agreement 7 of Palmer's KYTC Statewide Environmental Studies contract. Prepared a Biological Assessment report for Indiana, gray, northern long-eared and Virginia big-eared bats, conducted ecological field studies to document the USFWS threatened and endangered species along 12.2 miles of proposed road improvement on new alignment in Rowan and Elliot Counties. (Item No. 9-192.00)

Lower Howards Creek Watershed Management Plan | Winchester Municipal Utilities | Winchester, Kentucky | 2014 | Senior Environmental Biologist

Development of the Lower Howards Creek Watershed Management completed as the Supplemental Environmental Project for WMU's consent decree with the EPA. Assisted in preparation of Quality Assurance Project Plan; assisted in monthly water quality sampling; aided in stream habitat assessments; analyzed water quality sampling results; performed pollutant load calculations; proposed best management practices to improve stream habitat and reduce pollutant loads; coordinated with stakeholders, and local, state, and federal agencies; assisted in writing and preparation of the written watershed management plan.

KY 15 | Kentucky Transportation Cabinet and USFS | 2015

Biological Assessment performed under Letter Agreement 6 of Palmer's KYTC Statewide Environmental Studies contract. Prepared a Biological Assessment for Indiana, gray, northern long-eared bats, and running buffalo clover. Conducted ecological field studies to document the USFWS threatened and endangered species along 2,700 feet of proposed road improvement. (Item No. 10-162.00)

JK Smith Power Station Wetland Mitigation | East Kentucky Power Cooperation | Winchester, Kentucky | 2010 | Senior Environmental Biologist

3200-acre stream and wetland mitigation for approximately 81,460 linear feet of stream and 10 acres of wetlands in Clark County, KY; delineated streams and wetlands, met with USACE and KDOW regulatory staff, assisted in locating new sites and working on mitigation plans.

KY 56 | Kentucky Transportation Cabinet | Union County, Kentucky | 2014-2015 | Senior Environmental Biologist

Performed stream habitat assessment and wetland delineation and, threatened and endangered species habitat assessment for 5.3 miles of proposed road improvement and reconstruction. Conducted ecological field studies to document the USFWS threatened and endangered species along the corridor and prepared a Biological Assessment for Indiana, gray, and northern long-eared bats. Coordinated with USFWS for development of a project-specific Conservation MOA for removal of bat habitat. Conducted field investigations to delineate streams and wetlands to address impacts to Waters of the US as regulated by the US Army Corps of Engineers (USACE). Prepared needed project permits including: USACE Letter of Permission permit to meet Section 404 requirements; 401 Water Quality Certification permit and floodplain construction permit for the Kentucky Division of Water. (Item No. 2-310.20)

Wildlife Area Stream Restoration Assessment | TMMK | Scott County, Kentucky | 2018 | Senior Environmental Biologist

Stream assessment and survey of approximately 1500 linear feet of stream within the TMMK Wildlife Management Area. The project was initiated following observation of stream degradation and damage due to existing infrastructure. Habitat assessments were performed using the Rapid Bioassessment Protocols (RBPs) developed by Kentucky Division of Water (KDOW). A pebble count was also performed at one of the analyzed sites. A full macroinvertebrate assessment was not included in the scope of work, but during our initial inspection of the stream, rocks located in riffle habitats were inspected for macroinvertebrates for general observation. Responsible for project management, scheduling of surveyors and biologists, and preparation of memorandum.

KY 3, North Green River Road | Kentucky Transportation Cabinet | Henderson, Kentucky | 2013 | Senior Environmental Biologist

Performed stream habitat assessment and wetland delineation for road improvement and upgrade. Submitted permit applications for USACE 404 NWP, WQC 401, and floodplain construction permit.

Picadome Golf Course Stormwater Wetlands | LFUCG | Lexington, Kentucky | 2018 | Senior Environmental Biologist

Creation of two stormwater wetlands on Picadome Golf Course in Lexington Kentucky. Responsibilities for the project were coordination with state, federal and local agencies on permit approvals and extensions; wetland and stream delineation, plant identification and assistance with native plant needs. The project was modified to include over 1000 feet of bank stabilization of Vaughns Branch that was previously designed.

Fulton Road Extension | City of Winchester | Winchester, Kentucky | 2020 | Senior Environmental Biologist

Conducted routine ecological fieldwork documenting and delineating stream crossings, and wetlands for the road improvement on the project. Correspondence with USFWS and state DOW/KDFWR/DEP agencies. Prepared and submitted permit applications for USACE 404, Water Quality 401, and Floodplain Construction Permits.

Picadome Golf Course Stream Restoration | LFUCG | Lexington, Kentucky | 2016 | Senior Environmental Biologist

Stream restoration on Picadome Golf Course which includes stream restoration on Big Elm and the Picadome Golf Course sinkhole retrofit. Responsibilities for the stream restoration and sinkhole retrofit included stream delineation, plant identification and permits from state, federal, and local agencies. The project was funded through a Federal 319(h) grant awarded to LFUCG by Kentucky Division of Water.

Central Motor Wheel Stream and Wetland Delineation | Central Motor Wheel of America | Bourbon County, Kentucky | 2019 | Senior Environmental Biologist

Performed stream and wetland delineations for US Army Corps of Engineers 404 permit and Kentucky Division of Water 401 water quality permits. This project was conducted for the purpose of determining placement for construction of a new addition to the existing structure.

Cross Keys Park Pond Improvements | LFUCG | Lexington, Kentucky | 2016 | Senior Environmental Biologist

Water quality retrofit incorporated several complementary project elements to transform the degraded surface water into a water quality feature, which improves downstream water quality while providing aquatic habitat for fish, amphibians, and aquatic organisms. Stream and wetland delineation for USACE 404 jurisdictional permitting and KDOW 401 Water Quality permitting. Plant identification and assist on identifying native plantings, and wetland design creation. The project was funded through a Federal 319(h) grant awarded to LFUCG by Kentucky Division of Water.

Louisville Loop (Medora Section) | Kentucky Transportation Cabinet | Louisville, Kentucky | 2016 | Project Manager

Categorical Exclusion Level II for the 1.3-mile section that included all base studies and permitting activities. Responsibilities included coordination with local agencies, District 5, KYTC, and the USACE. Studies were conducted in the areas of cultural resources, ecology, hazmat, and socioeconomic.

US 460 | Kentucky Transportation Cabinet | Pike County, Kentucky | Senior Environmental Biologist;

Conducted ASTM 1527-13 Standard Phase I ESA and conducted field work for the Biological Assessment performed as part of Palmer's KYTC Statewide Environmental Studies contract. Prepared a Biological Assessment report for Indiana, gray, and northern long-eared bats, conducted ecological field studies to document the USFWS threatened and endangered species in support of a bridge reconstruction project. Conducted field investigations to determine requirement of US Army Corps of Engineers Letter of Permission permit to meet Section 404 requirements of the Clean Water Act of 1972. Responsibilities include delineating streams and wetlands and coordinating with the US Army Corps of Engineers. (Item No. 12-263.55)

I-65 Interchange | Bizzack Construction, LLC | Bullitt County, Kentucky | 2019 | Senior Environmental Biologist

Performed a stream and wetland delineation, prepared permits for impacts associated with an excess material site needed for construction of a new interchange on I-65. A Section 404 Letter of Permission permit application for the US Army Corps of Engineers and a Section 401 Water Quality Certification application for the Kentucky Division of Water were developed and approved. (Item No. 5-538.0)

Kentucky Enterprise Industrial Park | Bizzack Construction, LLC | Jackson and Pike Counties, Kentucky | 2019 | Senior Environmental Biologist

Performed stream and wetland delineations for US Army Corps of Engineers 404 permit and Kentucky Division of Water 401 water quality permits for excess material sites and a road construction for entry into the Kentucky Enterprise Industrial Park (City of Pikeville). Sites for excess materials were for road construction on I-265 (Bullitt County) and KY 30 (Jackson County). Stream and wetland delineations were performed at the time of the site visits.

Louisville Loop (Dodge Gap Section) | Kentucky Transportation Cabinet | Louisville, Kentucky | 2016 | Project Manager

Categorical Exclusion Level II for the 2.5-mile section that included all base studies and permitting activities. Responsibilities included coordination with local agencies, District 5, KYTC, and the USACE. Studies were conducted in the areas of cultural resources, ecology, hazmat, and socioeconomic.

Stream and Wetland Delineations | Bizzack Construction LLC | Bullitt, Jackson, and Pike Counties, Kentucky | 2019 | Project Manager and Senior Environmental Biologist

Conducted routine ecological fieldwork documenting and delineating stream crossings, and wetlands for the road improvement on the project. Correspondence with USFWS and state DOW/KDFWR/DEP agencies. Prepared and submitted USACE 404 and Water Quality 401/Floodplain Construction Permits.

Boone's Trail Road Improvements | Madison County Fiscal Court | Madison County, Kentucky | 2013 | Project Manager and Senior Environmental Biologist

Lee conducted routine ecological field work documenting and delineating stream crossings, and wetlands for the road improvement on the project. She corresponded with USFWS and state DOW/KDFWR/DEP agencies. Lee prepared and submitted USACE 404 and Water Quality 401/Floodplain Construction Permits.

KY 3, North Green River Road | Kentucky Transportation Cabinet | Henderson County, Kentucky | 2013 | UST Specialist

Lee performed a Phase I ASTM 1527-05 Environmental Site Assessment on a corridor where potential recognized environmental conditions (RECs) were located. Operating gas stations, historic gas stations, and dry cleaners were identified as RECS and required additional site assessment. She performed Phase II ESA on the Exxon site and conducted field investigations to document water-related impacts addressed in the US Army Corps of Engineers' Letter of Permission and KY Division of Water 401 Water Quality Certification applications. Her responsibilities included delineating streams and wetlands and coordinating with the agencies.

Confidential Biogas Facility | Confidential | Kentucky | Senior Environmental Scientist

Lee performed stream and wetland delineations for a biogas facility. This included documenting findings via gps point locations, filling out site forms and taking photographs. Lee assisted in providing this information to the project manager and client for potential permitting needs.

TRANSPORTATION

Smithland Bridge Osprey Monitoring | Kentucky Transportation Cabinet | Kentucky | 2022 | Senior Environmental Biologist

During osprey nesting season, Lee monitored the osprey nest on the existing bridge and in the surrounding areas within the construction of the new Smithland Bridge.

PUBLICATIONS & WHITEPAPERS

Slankard, Kate, C. Cruishank, L. Carolan. Osprey (*Pandion haliaetus*) Lay Eggs Despite Nest Removal During the Pre-laying Period.. *The Journal of Raptor Research* Volume 54, Issue 4, 2020, pp. 466-469.

Lucas Downs

Environmental Scientist

1 years of experience · Louisville, Kentucky

Lucas recently graduated from Clemson University with a B.S in Wildlife and Fisheries Biology. While there he learned about the biology and ecology of the Southeast region. He spent time working on projects involving wetlands, wood duck boxes, and fisheries management. Additionally, Lucas studied abroad in Bhutan. While there he and a group of his peers conducted research on the cause of Blue Pine Dieback in the Eastern Himalayan Mountains between Paro and Thimphu. Lucas participated in various education in-field experiences with environmental advocates, engineers, doctors, and politicians. Lucas presented the groups findings in a scientific paper to his peers and high ranking scientists and teachers.

EDUCATION

Bachelor of Science, Clemson University, Clemson, SC, United States, 2020

Himalayan Environmental and Development Studies, School for Field Studies, Paro, Bhutan, 2019

CERTIFICATIONS & TRAINING

Wilderness First Aid & CPR, Clemson, SC, United States, 2020

Certificate, American Trauma Event Management, Louisville, KY, United States, 2023

Bloodborne Pathogens Training, Bluegrass Health & Safety, Inc, Louisville, KY, United States, 2023

PROJECT EXPERIENCE

ACOUSTIC MONITORING / MIST-NETTING / TELEMETRY

Northern Kentucky In-Lieu-Fee Stream Mitigation Projects | KDFWS | Kentucky, United States | 2022 | Environmental Scientist

Assisted in *Myotis sodalis* netting and handling. Lead telemetry tracking and emergence counts for 11 days on 7 different bats, coordinating up to 5 other biologists. Assisted KDFWS to conduct an emergence tree netting and helped put transmitters on the bats captured. Coordinated with Copperhead consulting to conduct a plane telemetry survey to help locate missing bats after a storm. Successfully located 12 roost trees in four different locations confirming the population of *Myotis sodalis* in Boone County, KY.

Ridgeline Expansion Project | East Tennessee Natural Gas | Tennessee, United States | 2022 | Environmental Scientist

Assisted several permitted bat biologists with summer mist net surveys site selection, setup, and handling of bats. Sampling occurred in Trousdale, Smith, Jackson, Putnam, Overton, Fentress, Morgan, and Roane County Tennessee. Managed data collection records during and after sampling. Assisted several permitted bat biologists with fall harp trapping surveys over 6 weeks in Jackson County Tennessee.

PHASE I & II ENVIRONMENTAL SITE ASSESSMENTS

I75/I275 Interchange Scope | KYTC | Boone County, Kentucky | 2022 | Environmental Scientist

Conducted a Phase I Environmental Site Assessment field visit. Coordinated with site contacts to gather environmental site documentation and permits to determine any potential environmental concerns for the site. Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Used Project-Specific Scope of Work for compliance with policy, principles, and procedures, and prepare report using appropriate technical guidance and checklists to meet the needs and requirements of the client.

Bobo Road Expansion | Kentucky Transportation Cabinet | Paducah, Kentucky | 2022 | Environmental Scientist

Conducted a Phase I Environmental Site Assessment field visit. Coordinated with site contacts to gather environmental site documentation and permits to determine any potential environmental concerns for the site. Assisted in preparation of a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Used Project-Specific Scope of Work for compliance with policy, principles, and procedures, and prepare report using appropriate technical guidance and checklists to meet the needs and requirements of the client.

Murray-Calloway County Airport | Murray-Calloway County Airport Board | Calloway County, Kentucky | 2022 | Environmental Scientist

Conducted a Phase I Environmental Site Assessment field visit at the approximately 82-acre site. Coordinated with site contacts to gather environmental site documentation and permits to determine any potential environmental concerns for the site. Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Used Project-Specific Scope of Work for compliance with policy, principles, and procedures, and prepare report using appropriate technical guidance and checklists to meet the needs and requirements of the client.

Ridgeline Expansion Project | East Tennessee Natural Gas | Trousdale County, Tennessee | 2022 | Environmental Scientist

Conducted a Phase I Environmental Site Assessment field visit at the approximately 12-acre site. Coordinated with site contacts to gather environmental site documentation and permits to determine any potential environmental concerns for the site. Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Used Project-Specific Scope of Work for compliance with policy, principles, and procedures, and prepare report using appropriate technical guidance and checklists to meet the needs and requirements of the client.

VISUAL IMPACT ASSESSMENTS

Dogwood Corners Solar Project | Oriden Power | Hopkinsville, Kentucky, United States | 2022 | Photographer

Photographed the project area so photosimulations could be created for a proposed solar project. These images were used to create a realistic visual impact of the project for the community.

Song Sparrow Solar Project | Clearway Energy Group, LLC | Kentucky, United States | 2023 | Photographer

Selected locations and photographed the project area so photosimulations could be created for a proposed solar project. These images were used to create a realistic visual impact of the project on the community.

WETLAND DETERMINATION AND DELINEATION

Nicholas County Solar | Nicholas County Solar LLC | Nicholas County, West Virginia | 2022 | Environmental Scientist

Assisted in conducting a wetland delineation on a large tract of reclaimed mine land. The survey was conducted in preparation for a potential solar panel installation. The area is still an active mining site. Several wetlands and streams were identified during the survey.

Lick-Pedro Inspection | American Electric Power Company, Inc. | Jackson, Ohio, United States | 2022 | Environmental Scientist

Assisted BC-1937 with wetland delineations in southern Ohio on a transmission right of way improvement. Several wetlands and streams were identified and delineated.

Enbridge Ridgeline Expansion | Enbridge | Tennessee, United States | 2022-2023 | Environmental Scientist

Assisted with delineations as a technician over the course of this project. Adherence to the TDEC stream determination standards were followed while conducting these surveys.

Summer Shade Solar | Naturgy Candela Devco LLC | Glasgow, Kentucky, United States | 2022 | Environmental Scientist

Assisted with the delineation at the Summer Shade Project area within the potential area of impact for a solar farm. Stream and wetland delineations were conducted using the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountain and Piedmont (Version 2.0) to identify any potential jurisdictional waters within the proposed areas of disturbance that may be subject to regulation under the Clean Water Act.

Murray-Calloway County Airport Land Acquisition | Murray-Calloway County Airport Board | Murray, Kentucky, United States | 2022 | Environmental Scientist

Assisted with the delineation and desktop review at the Murray-Calloway County Airport within the potential area of impact for a land acquisition project next to the airport. Stream and wetland delineations were conducted using the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic & Gulf Coastal Plain (Version 2.0) to identify any potential jurisdictional waters within the proposed areas of disturbance that may be subject to regulation under the Clean Water Act.

APPENDIX C
USER PROVIDED RECORDS

**ASTM 1527-13 Phase I ESA
USER QUESTIONNAIRE**

Property Address/Location: Ballard County, KY

Type of Property: Undeveloped, agricultural

Type of Transaction (property acquisition, refinance, lease, etc): Lease

Why is a Phase I ESA required: Due diligence for commercial development

Identification of all reliant parties: Clearway Energy LLC and Song Sparrow Solar LLC

The User must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that “*all appropriate inquiry*” is not complete.

1) Environmental cleanup liens that are filed or recorded against the site: Are you aware of any environmental cleanup liens that are filed or recorded under federal, tribal, state or local law? **No**

2) Activity and land use limitations (AUL) that are in place on the site or that have been filed or recorded: Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? **No**

3) Specialized knowledge or experience of the person seeking to qualify for Landowner Liability Protection (LLP): As the user if this ESA 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**

4) Relationship of the purchase price to the fair market value of the property if it were not contaminated: Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is no difference, have you considered whether the lower purchase price is because contamination is known or believed to be present on the property? **N/A – leased land**

5) Commonly known or reasonably ascertainable information about the property: 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, as user,

- Do you know the past uses of the property? **Agriculture**
- Do you know of specific chemicals that are present or once were present at the property? **No**
- Do you know of spills or other chemical releases that have taken place at the property? **No**
- Do you know of any environmental cleanups that have taken place at the property? **No**

ASTM 1527-13 Phase I ESA

USER QUESTIONNAIRE

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: As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Jennifer Sherwood

Signature

Sr. Manager, Permitting

Title

Jennifer Sherwood

Name of User Completing Form (print)

06/15/23

Date

APPENDIX D
ENVIRONMENTAL AGENCY DATABASE
SEARCH REPORT

Song Sparrow Solar
Ballard County, Kentucky
La Center, KY 42056

Inquiry Number: 7245006.10s
February 07, 2023

EDR Area / Corridor Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: State spills

A review of the SPILLS list, as provided by EDR, and dated 10/31/2022 has revealed that there is 1 SPILLS site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported Facility Status: Env. Closed Inc ID: 2336544		1 / 5	38

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

MAPPED SITES SUMMARY

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS SPILLS	DIST (ft. & mi.) DIRECTION TP
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
PSTEAF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SB193	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

- Totals --		1	0	0	0	0	0	1
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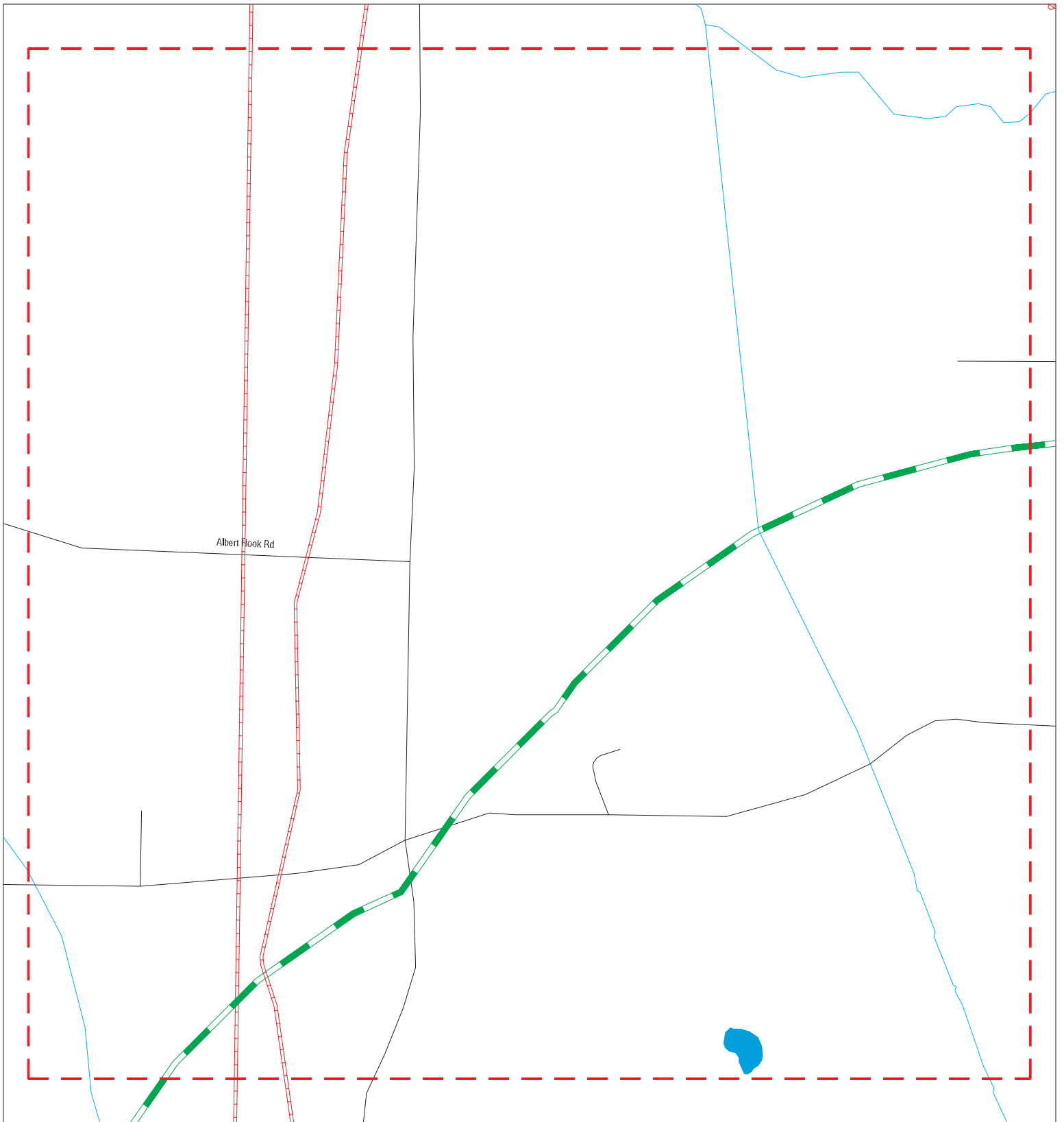
NOTES:

TP = Target Property











NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 7245006.10s



Albert Hook Rd

- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
 ADDRESS: Ballard County, Kentucky
 CITY/STATE: La Center KY
 ZIP: 42056

CLIENT: Stantec
 CONTACT: Christopher Michael Knabel
 INQUIRY #: 7245006.10s
 DATE: 02/07/23

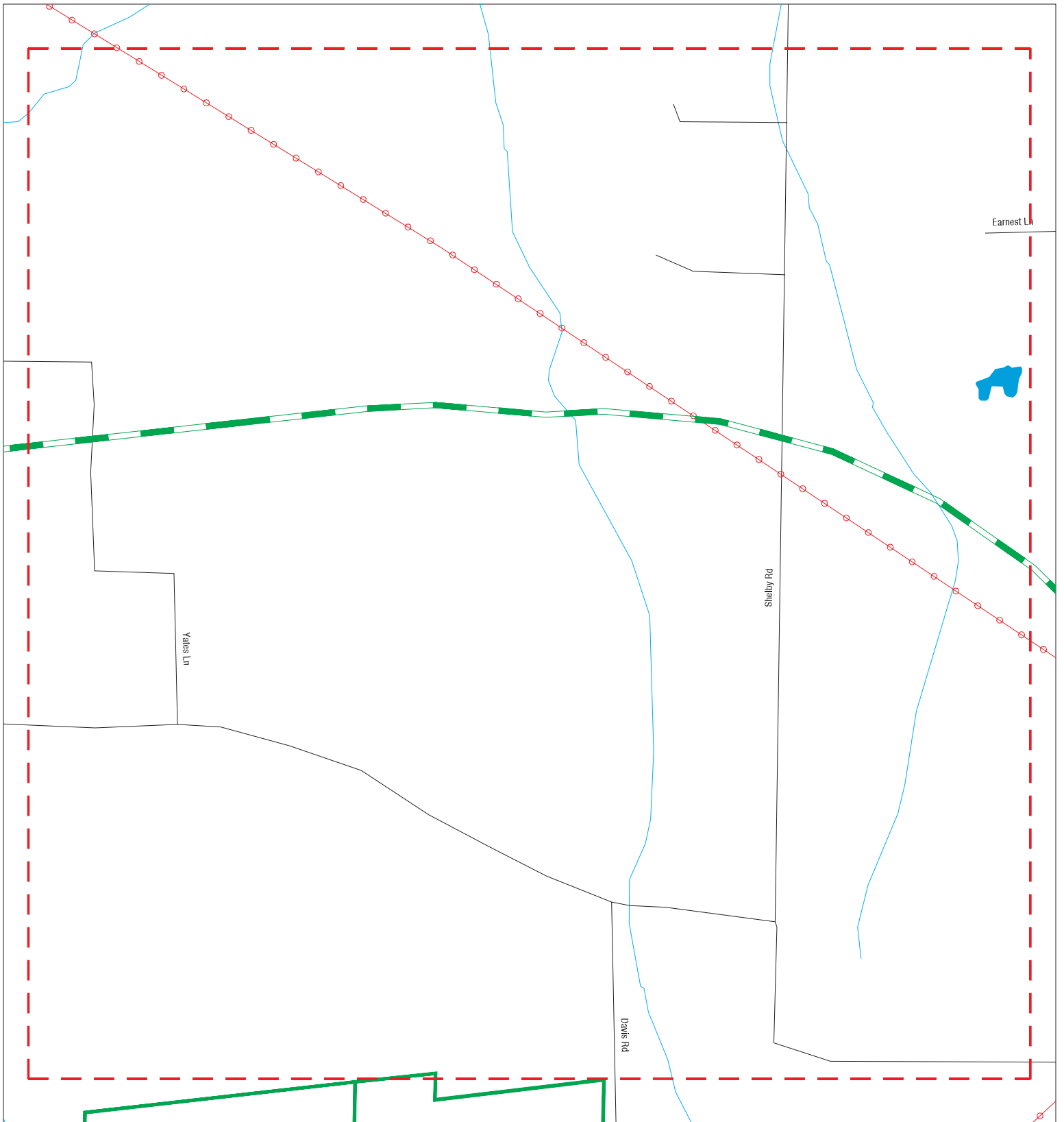
MAPPED SITES SUMMARY - FOCUS MAP 1











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 2 - 7245006.10s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

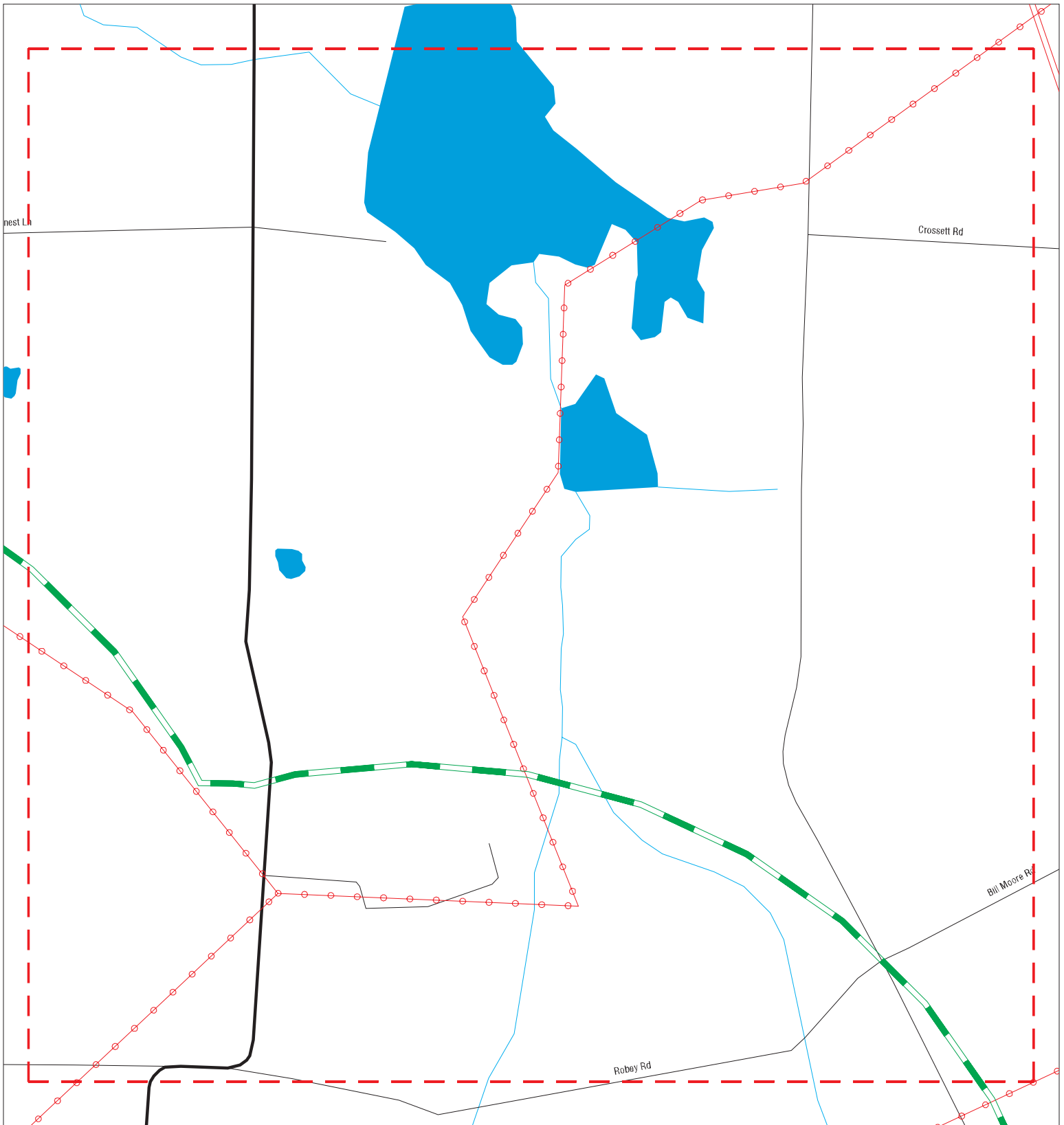
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 3 - 7245006.10s



- ▲ Sites
- - - Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- - - Focus Map - Sites
- - - Power Line
- - - Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

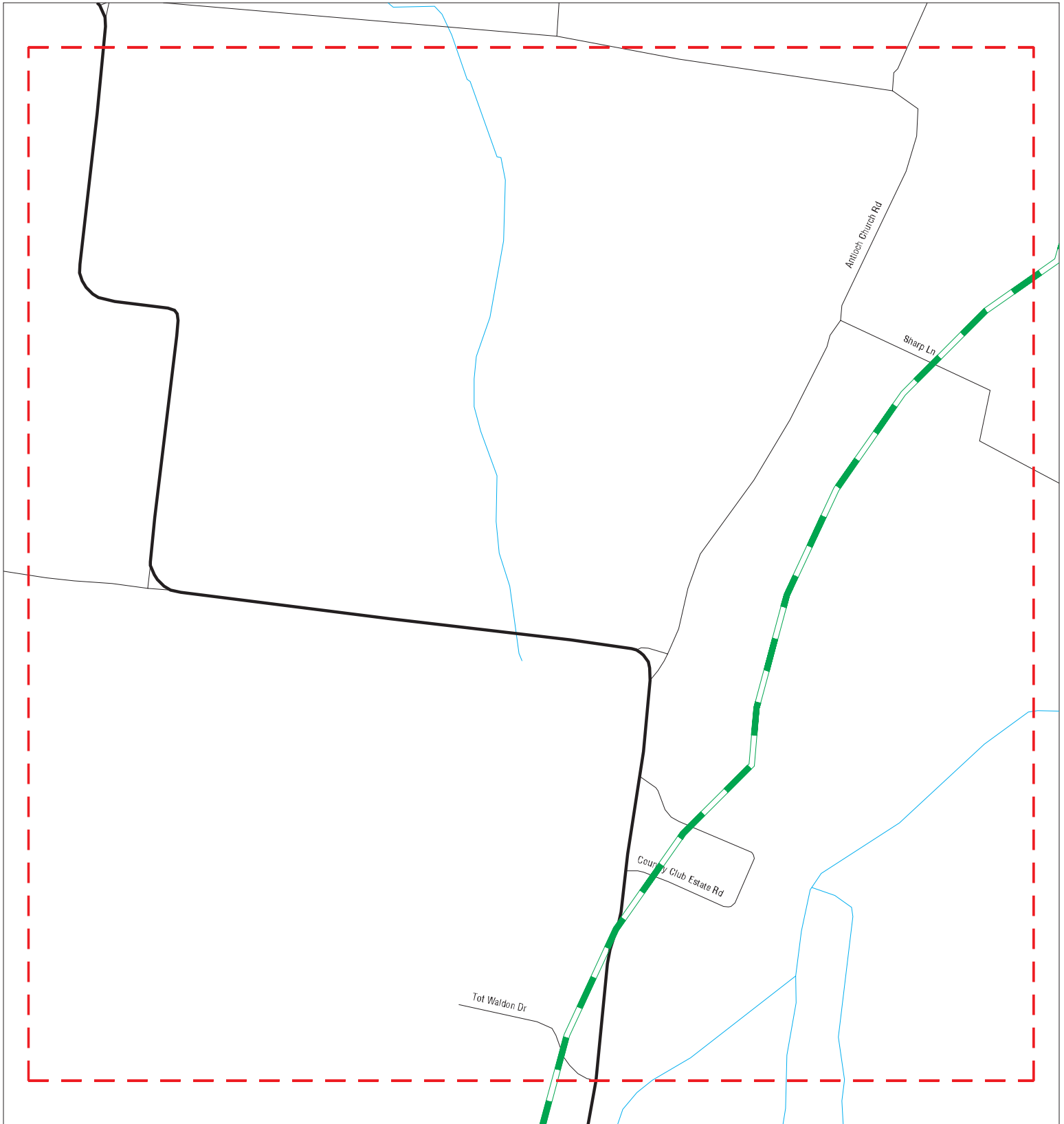
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 4 - 7245006.10s



- | | | | | | |
|----------------------|-------------------|------------------------------|---|-----|-----------|
| Sites | Focus Map - Sites | Dept. Defense Sites | 0 | 1/8 | 1/4 Miles |
| Target Property | Power Line | Indian Reservations BIA | | | |
| Search Buffer | Pipe Line | National Priority List Sites | | | |
| Focus Map - No Sites | | | | | |

SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

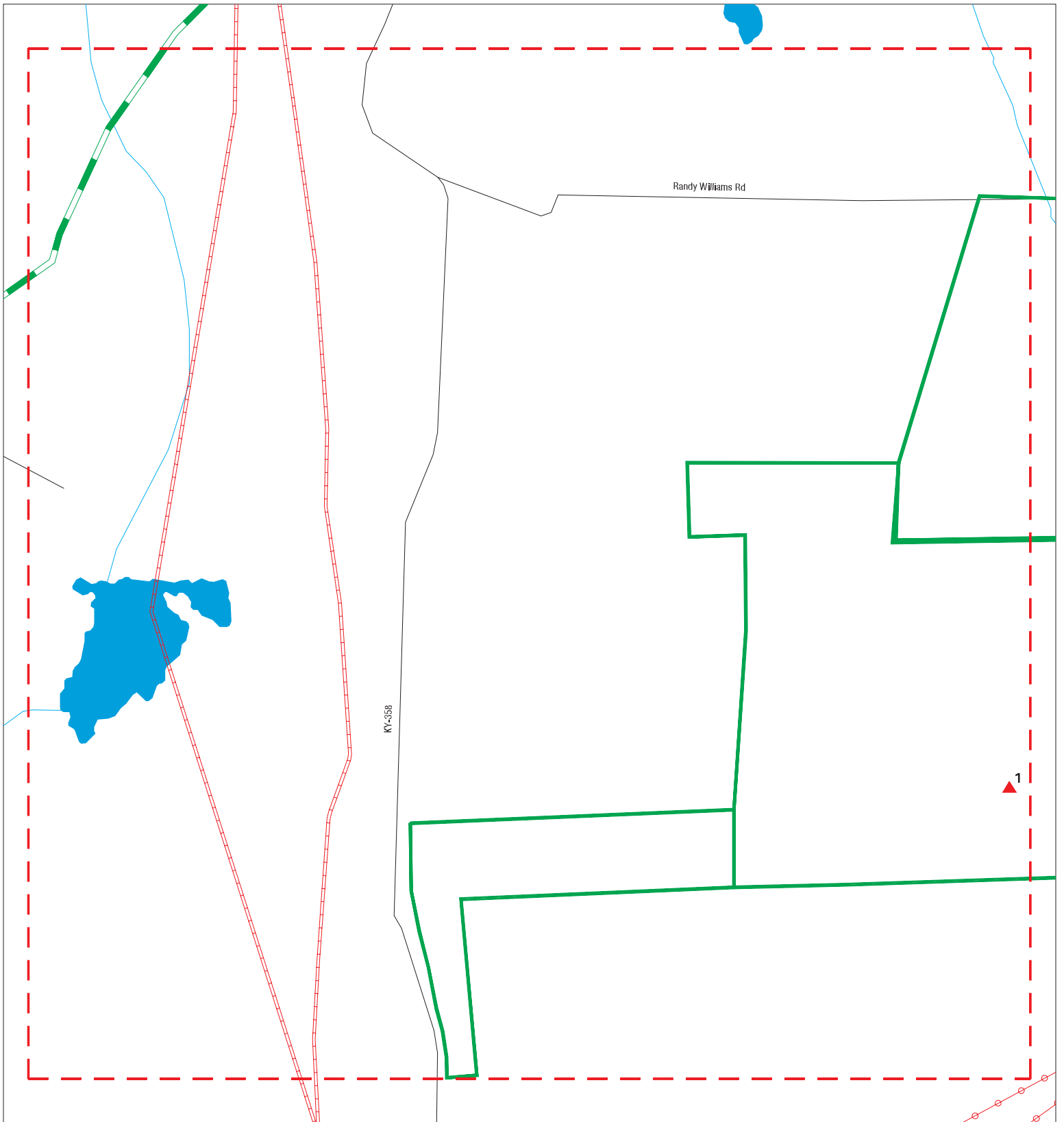
MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 5 - 7245006.10s



- | | | |
|----------------------|------------------------------|-------------------------|
| Sites | Focus Map - Sites | Dept. Defense Sites |
| Target Property | Power Line | Indian Reservations BIA |
| Search Buffer | Pipe Line | |
| Focus Map - No Sites | National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

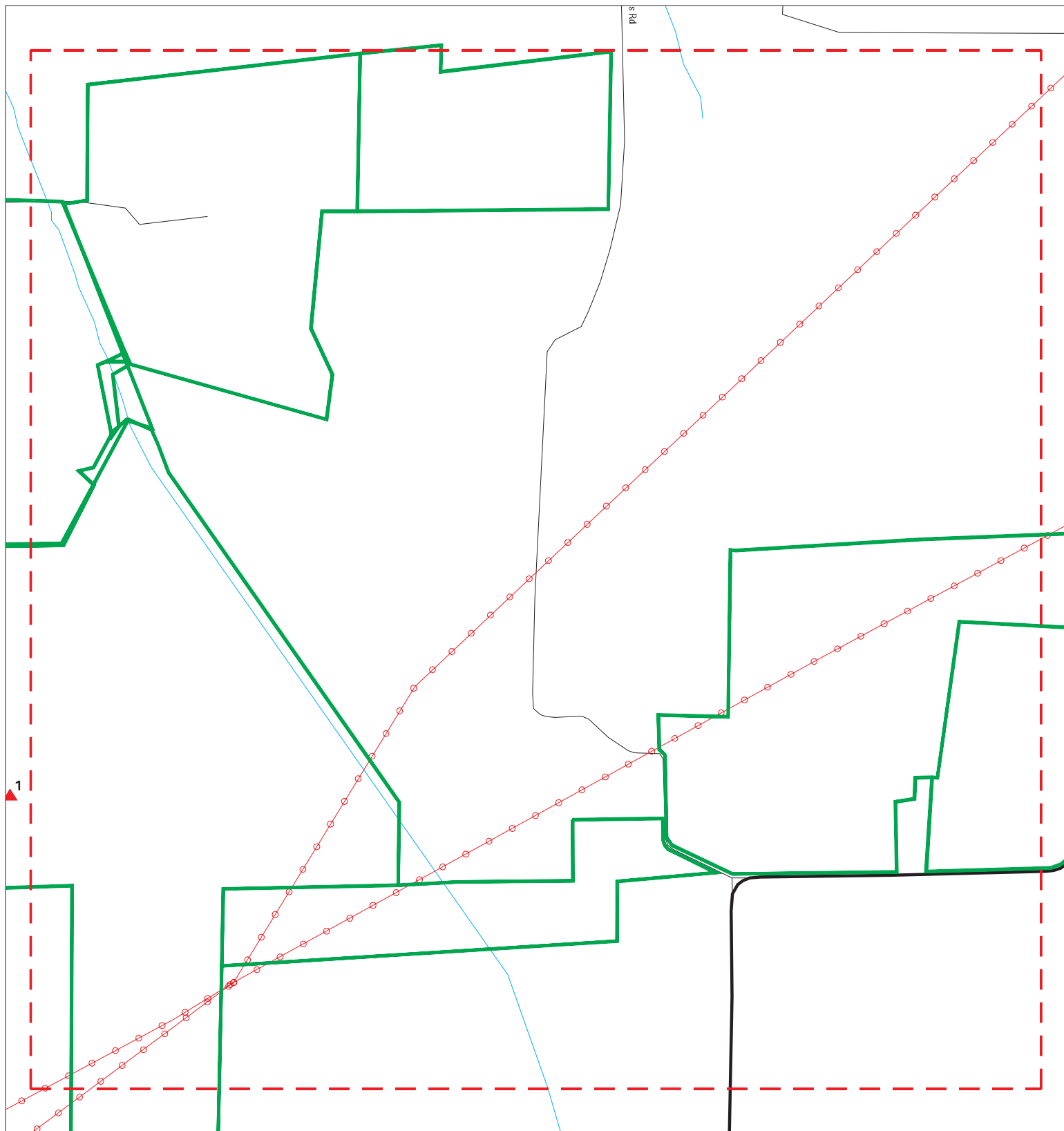
CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23











MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS SPILLS	DIST (ft. & mi.) DIRECTION TP
-----------------------	-----------	---------	-----------------------------	-------------------------------------

Focus Map - 6 - 7245006.10s



- | | | | | | |
|--|----------------------|---|-------------------|---|------------------------------|
|  | Sites |  | Focus Map - Sites |  | Dept. Defense Sites |
|  | Target Property |  | Power Line |  | Indian Reservations BIA |
|  | Search Buffer |  | Pipe Line |  | National Priority List Sites |
|  | Focus Map - No Sites | | | | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

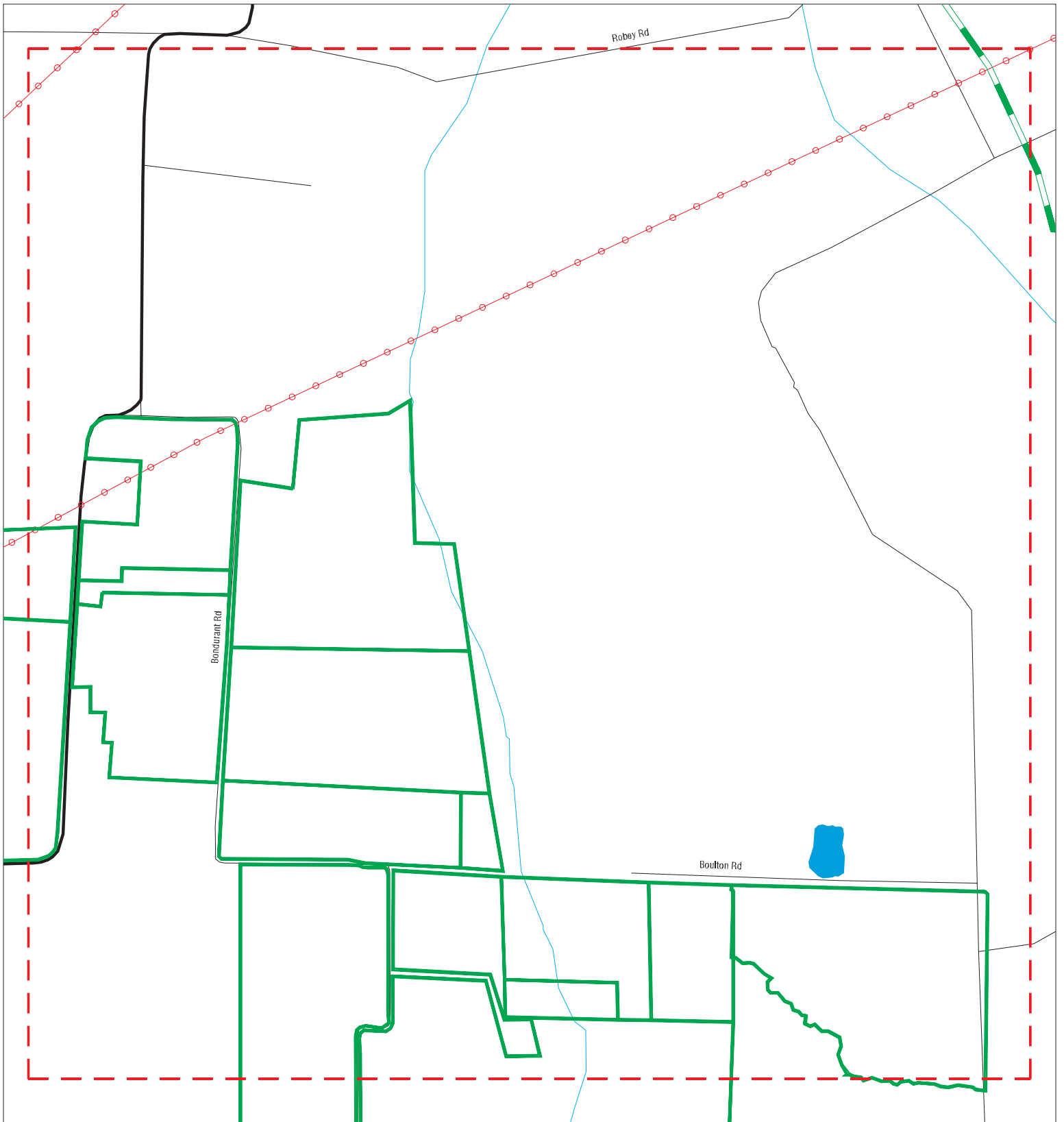
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 7 - 7245006.10s



- ▲ Sites
- ▬ Focus Map - Sites
- ▬ Dept. Defense Sites
- ▬ Target Property
- ▬ Power Line
- ▬ Indian Reservations BIA
- ▬ Search Buffer
- ▬ Pipe Line
- ▬ Focus Map - No Sites
- ▬ National Priority List Sites



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

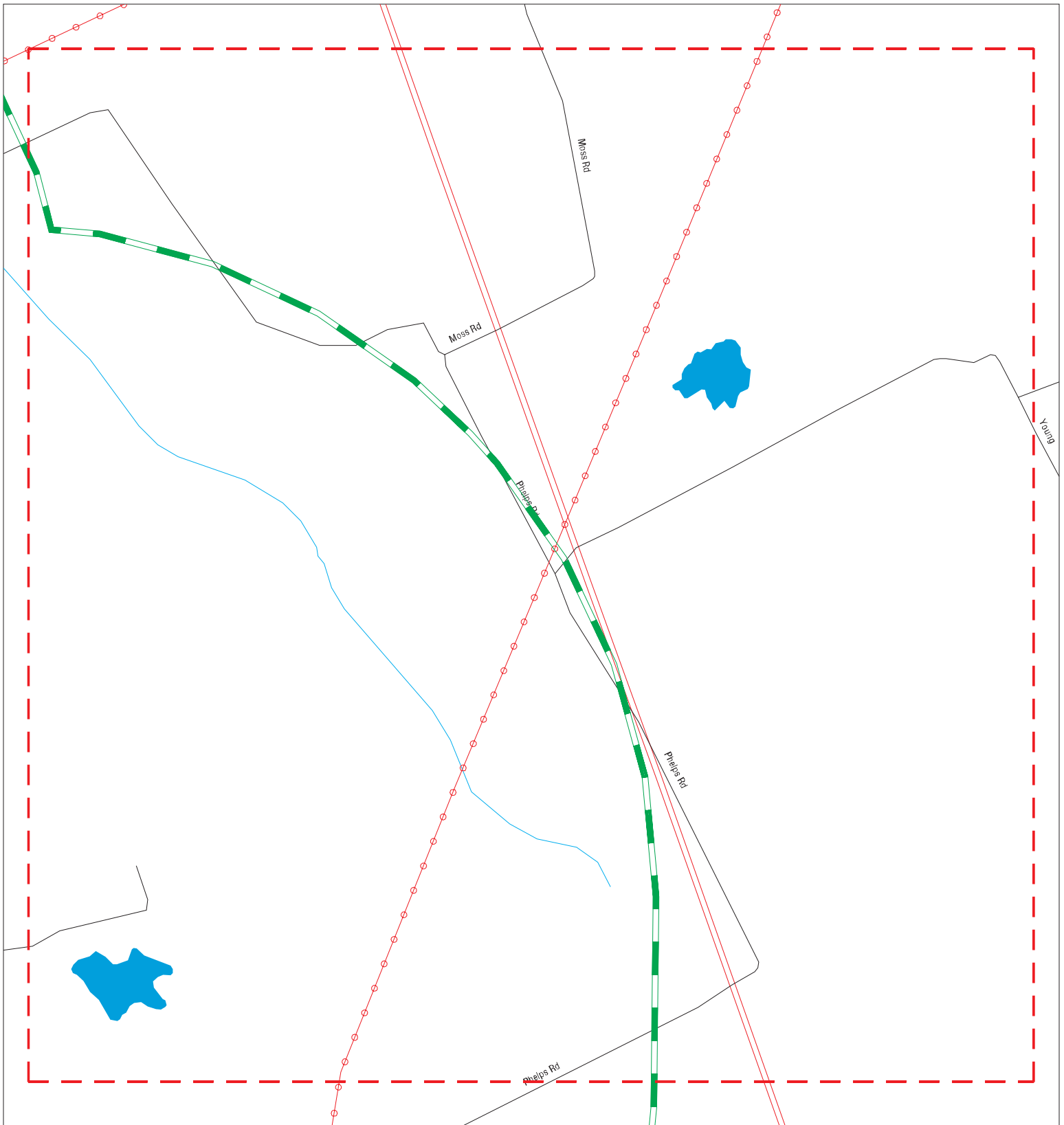
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 8 - 7245006.10s



- | | | | |
|----------------------|------------------------------|-------------------------|--|
| Sites | Focus Map - Sites | Dept. Defense Sites | |
| Target Property | Power Line | Indian Reservations BIA | |
| Search Buffer | Pipe Line | | |
| Focus Map - No Sites | National Priority List Sites | | |

SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

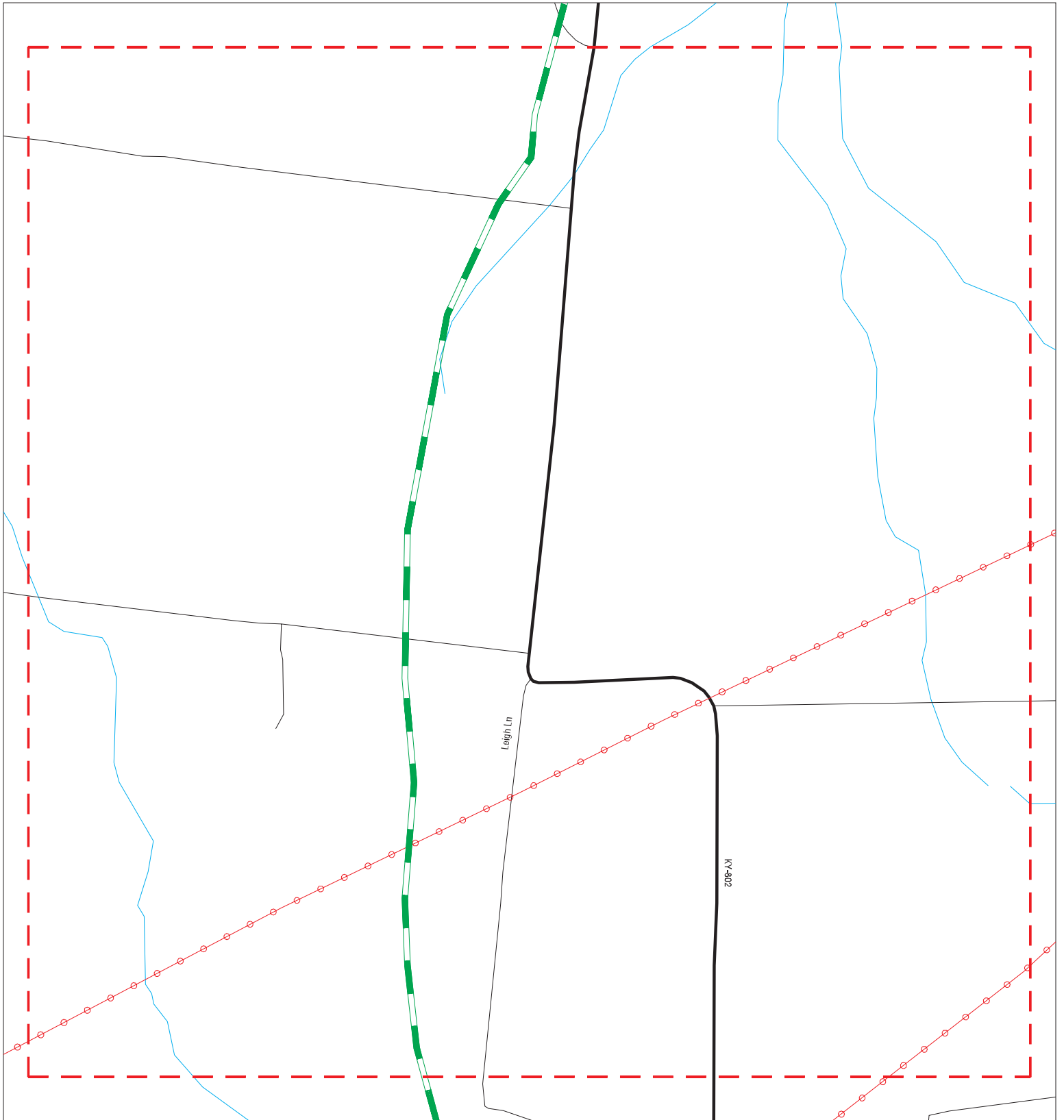
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

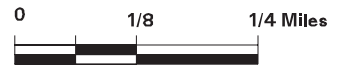
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 9 - 7245006.10s



- ▲ Sites
- - - Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- - - Focus Map - Sites
- - - Power Line
- - - Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



<p>SITE NAME: Song Sparrow Solar ADDRESS: Ballard County, Kentucky CITY/STATE: La Center KY ZIP: 42056</p>	<p>CLIENT: Stantec CONTACT: Christopher Michael Knabel INQUIRY #: 7245006.10s DATE: 02/07/23</p>
---	---

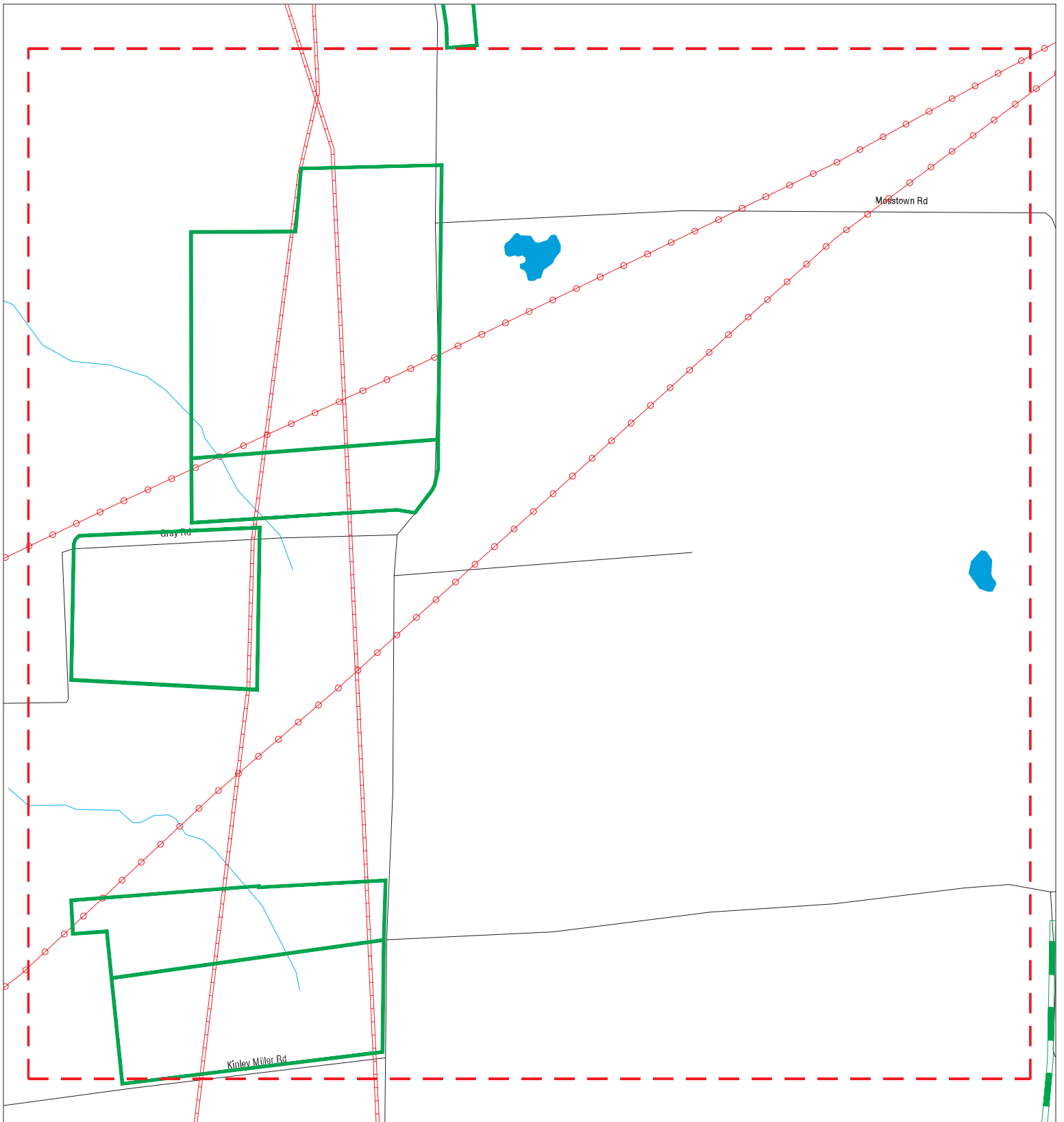
MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 10 - 7245006.10s



- | | | |
|----------------------|-------------------|------------------------------|
| Sites | Focus Map - Sites | Dept. Defense Sites |
| Target Property | Power Line | Indian Reservations BIA |
| Search Buffer | Pipe Line | National Priority List Sites |
| Focus Map - No Sites | | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

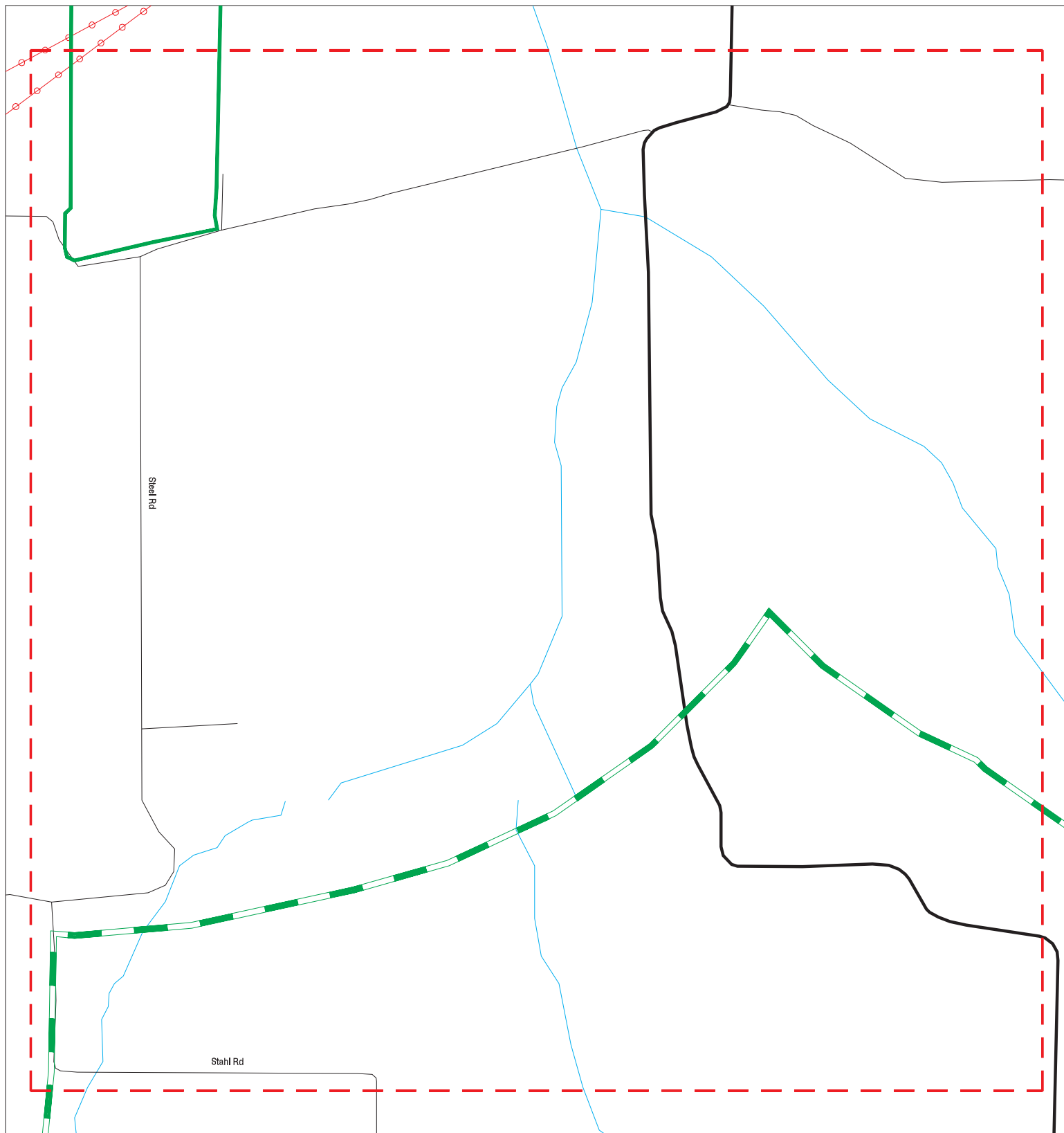
MAPPED SITES SUMMARY - FOCUS MAP 10











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 11 - 7245006.10s



- | | | | | | |
|--|----------------------|---|-------------------|---|------------------------------|
|  | Sites |  | Focus Map - Sites |  | Dept. Defense Sites |
|  | Target Property |  | Power Line |  | Indian Reservations BIA |
|  | Search Buffer |  | Pipe Line |  | National Priority List Sites |
|  | Focus Map - No Sites | | | | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

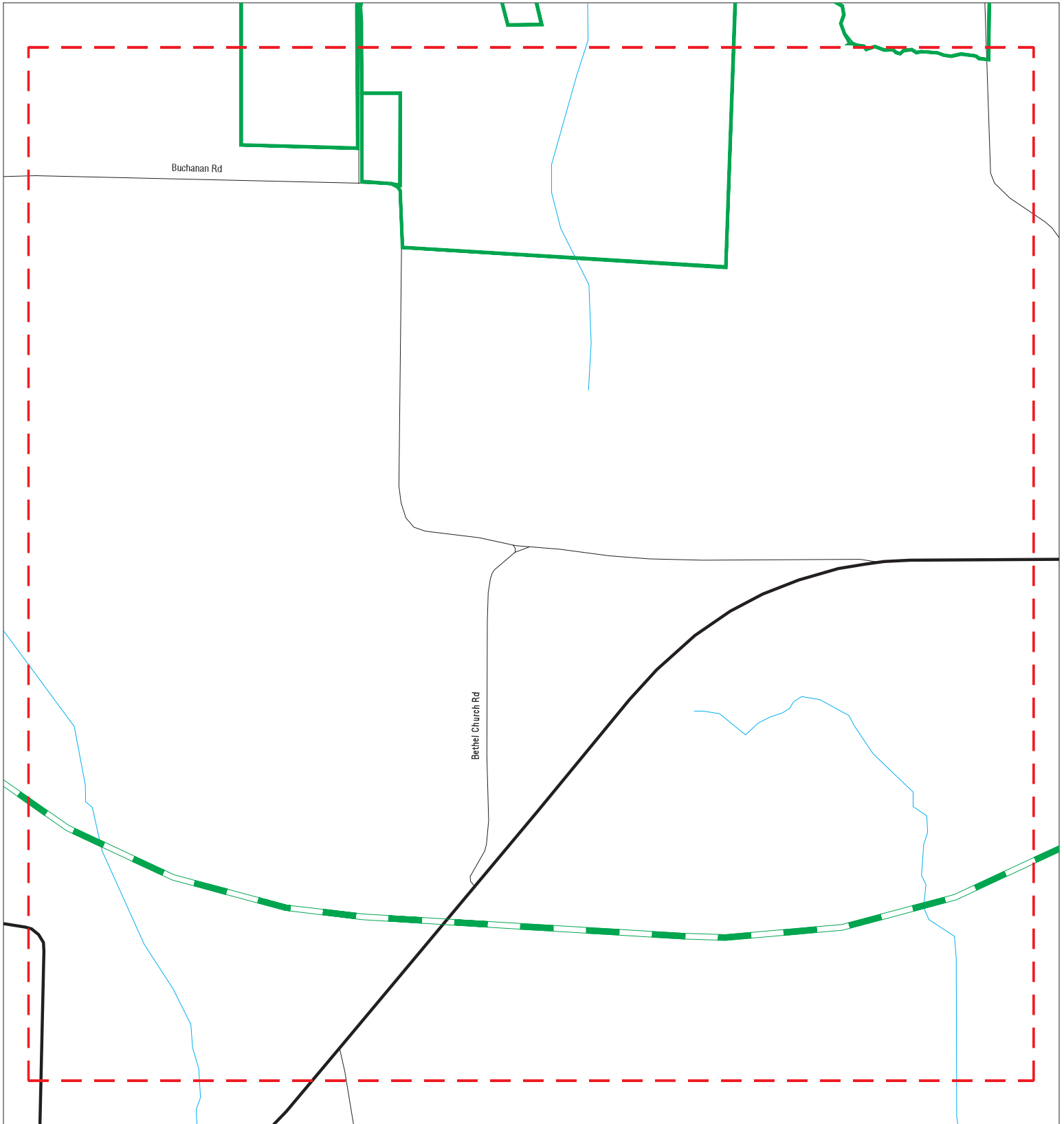
MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 12 - 7245006.10s



- | | | | |
|---|--|---|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |  |
|  Target Property |  Power Line |  Indian Reservations BIA | |
|  Search Buffer |  Pipe Line | | |
|  Focus Map - No Sites |  National Priority List Sites | | |

SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

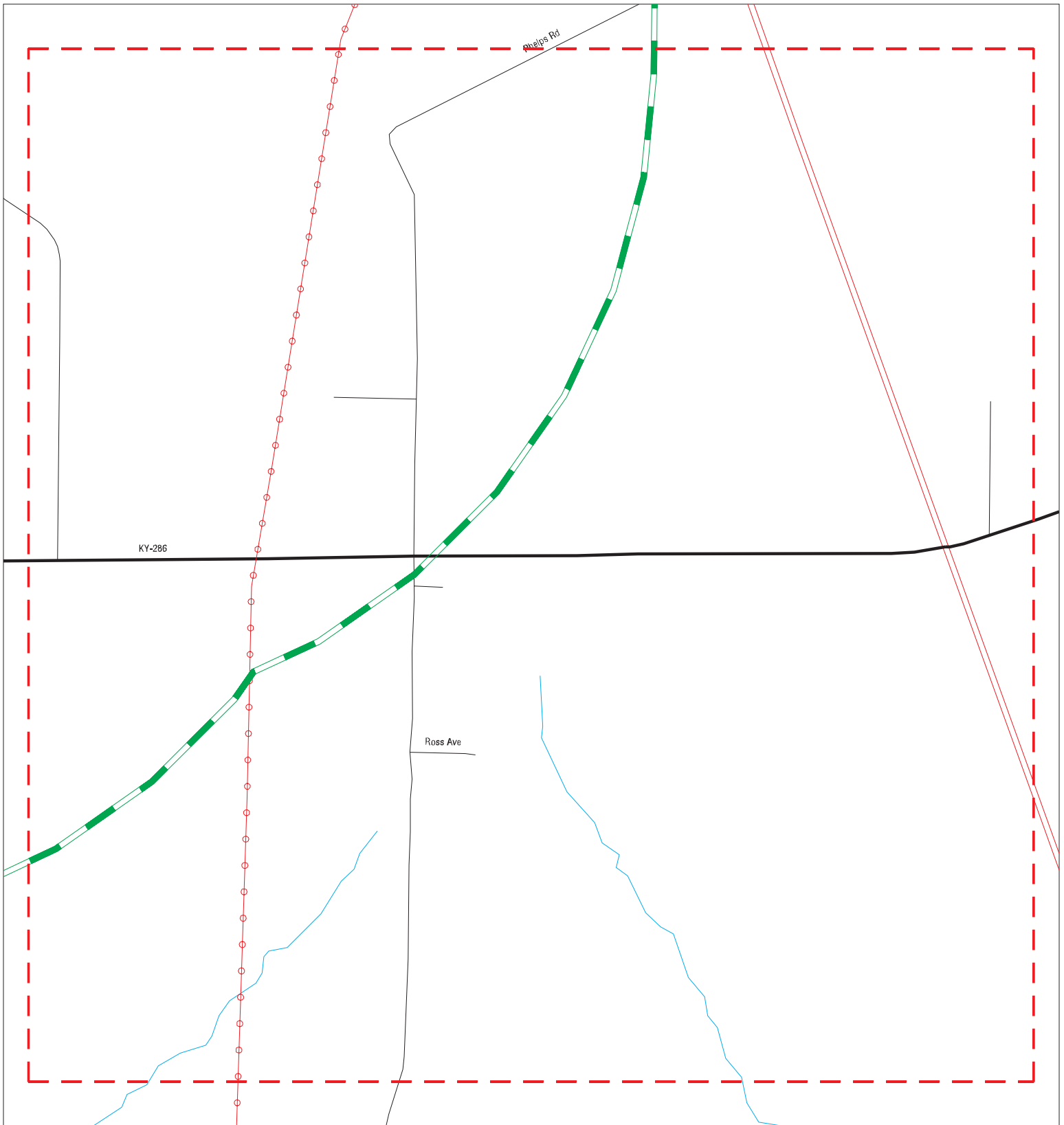
MAPPED SITES SUMMARY - FOCUS MAP 12











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

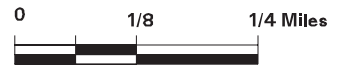
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 13 - 7245006.10s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

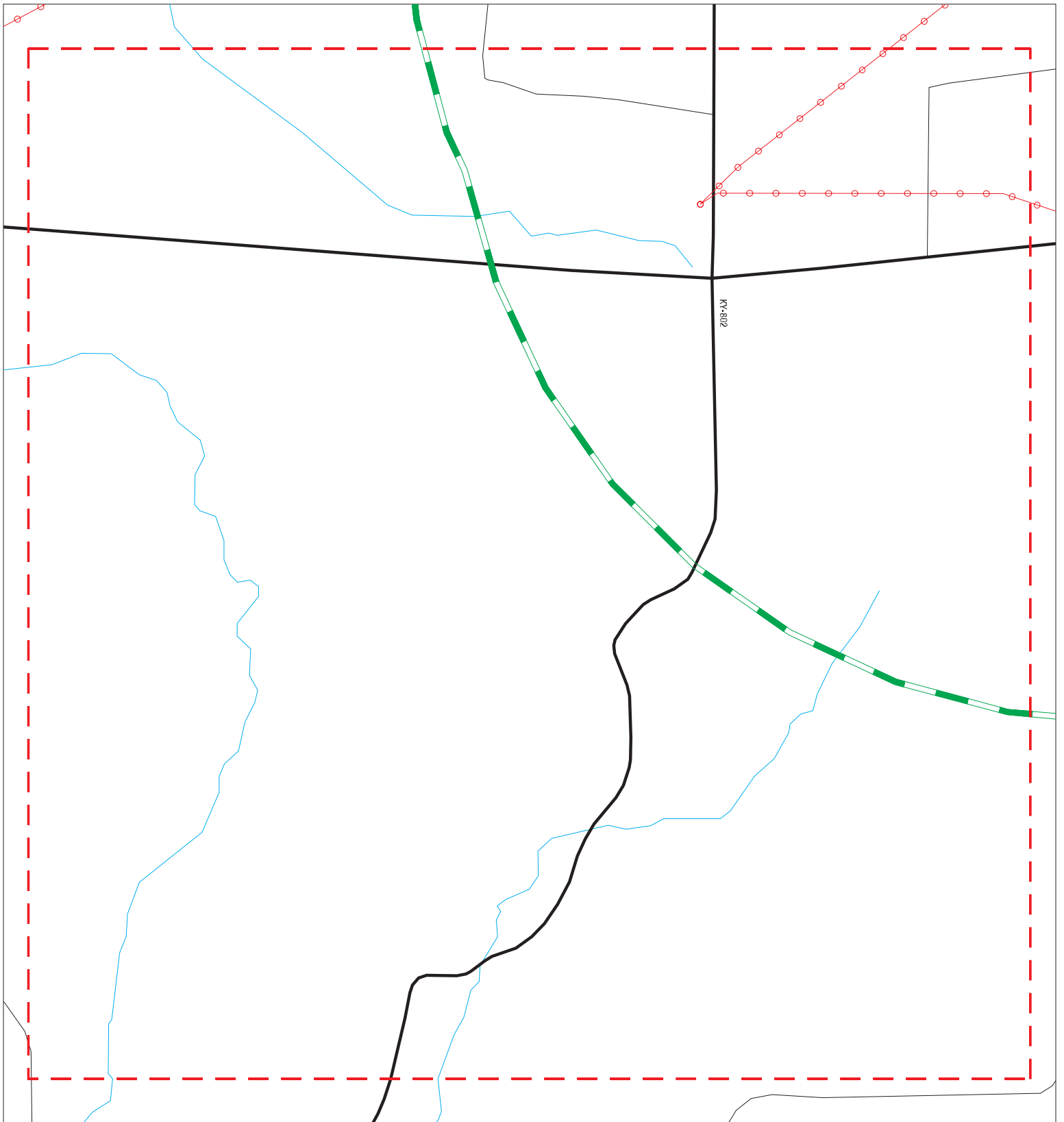
MAPPED SITES SUMMARY - FOCUS MAP 13











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 14 - 7245006.10s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

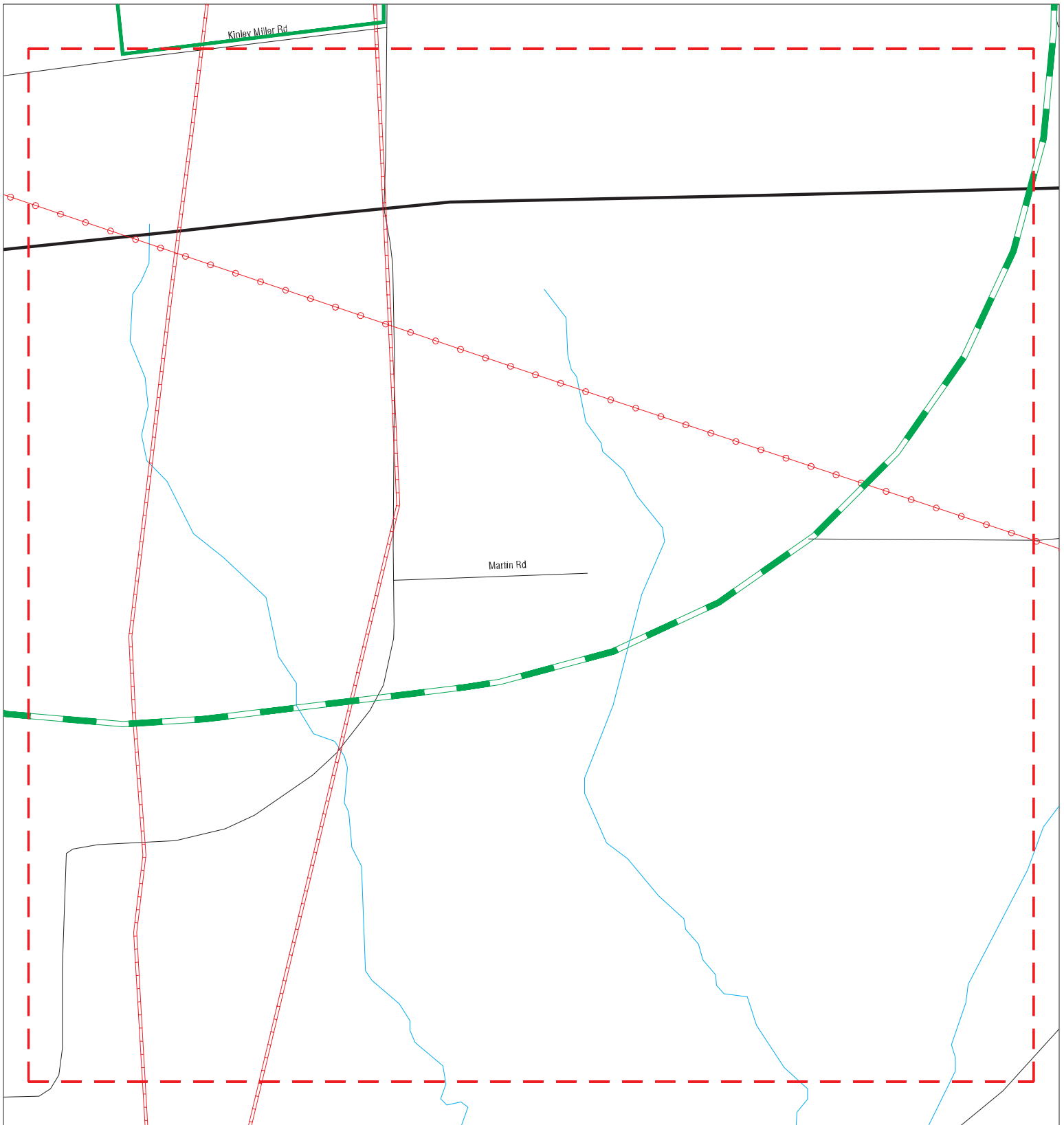
MAPPED SITES SUMMARY - FOCUS MAP 14











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 15 - 7245006.10s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

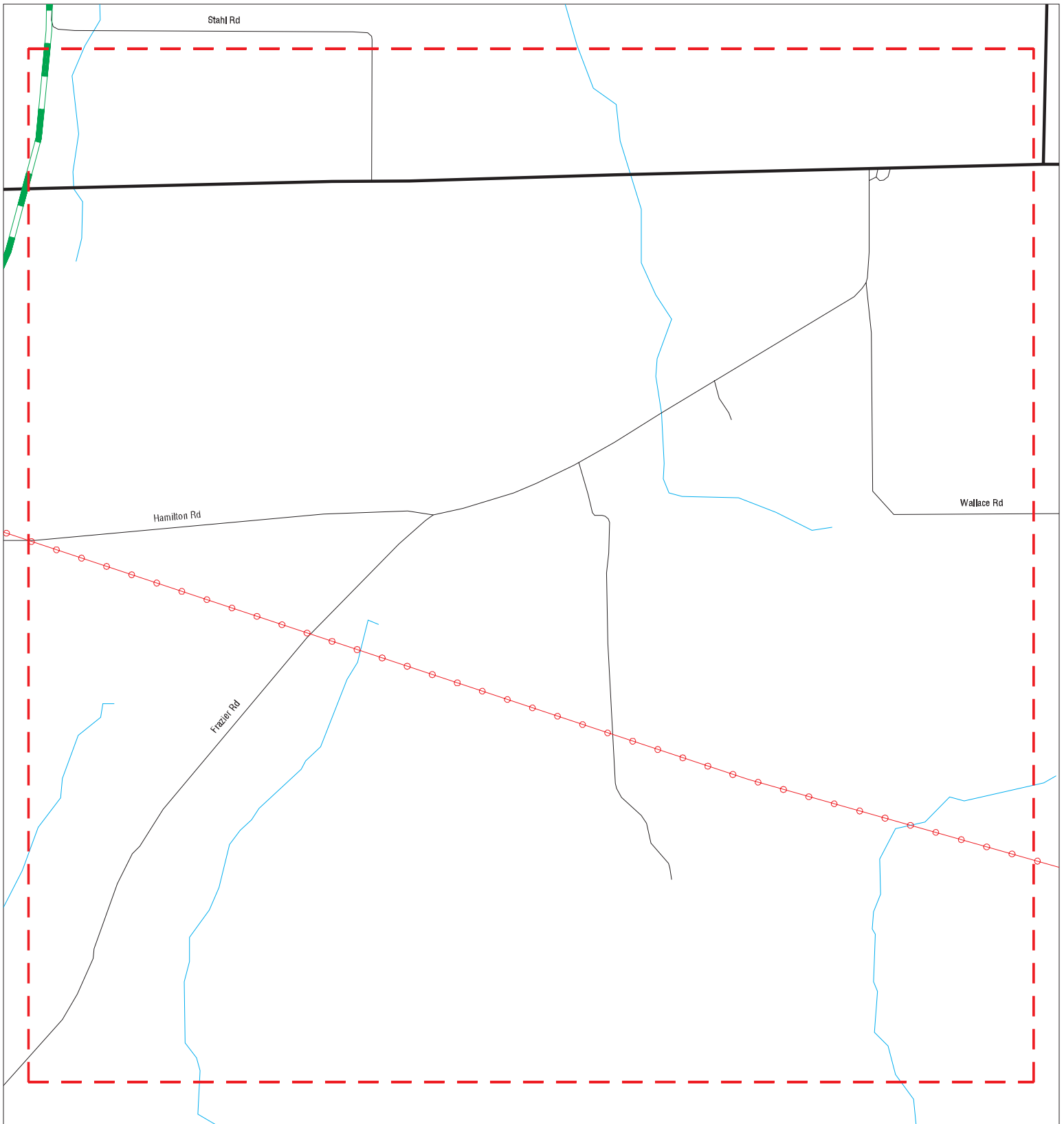
MAPPED SITES SUMMARY - FOCUS MAP 15











Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

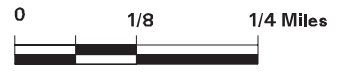
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 16 - 7245006.10s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: Song Sparrow Solar
ADDRESS: Ballard County, Kentucky
CITY/STATE: La Center KY
ZIP: 42056

CLIENT: Stantec
CONTACT: Christopher Michael Knabel
INQUIRY #: 7245006.10s
DATE: 02/07/23

MAPPED SITES SUMMARY - FOCUS MAP 16

Target Property:
BALLARD COUNTY, KENTUCKY
LA CENTER, KY 42056

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

1

SPILLS S117184619
N/A

Target
Property

BALLARD (County), KY

Actual:
417 ft.

Focus Map:
5

SPILLS:

Name: Not reported
Address: Not reported
City,State,Zip: KY
Facility Status: Env. Closed
Incident Type: NATURAL DISASTER - TORNADO; NATURAL DISASTER - FLOODING
Program Code: 01
Received By Staff: Whybark, Kristine
Received Date: 09/20/2011
Report Date: 2011-09-21 07:58:49
Dispatch Description: staging and burning area at 6304 Mayfield Rd. Wikliffe, Ky in Ballard County

Source Name: J L Doublin Trucking Co (AI ID: 48)
Source Address: staging and burning area
Substances: PM2.5 (Particulate Matter - 2.5 Microns Or Less):
Other Substances Desc: Not reported
Media Impacted: Air
Inc ID: 2336544
Lead Invest Person ID: 52078
Compliance: No
Notification: Yes
Priority: Routine
Incident End Date: Not reported
Follow Up Priority Desc: Not reported
Most Recent Comp Eval Activity: AI: 48 CIV20110001
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Mitigated
Waterbody: Not reported
Latitude: 37.02250
Longitude: -88.91750

Count: 2 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BALLARD COUNTY	S128196803	BALLARD CO MIDDLE & HIGH SCHOOL (AI ID: 44652)	BALLARD COUNTY HIGH SCHOOL		ASBESTOS
BALLARD COUNTY	S125982599	KYTC	THE BRIDGE IS LOCATED IN BALLARD COUNTY KENTUCKY. THERE IS NOT A SPECIFIC ADDRESS, BUT THE BRIDGE IS LOCATED ON JOHNSON ROAD APPROXIMATELY 1.5 MILES FROM BARLOW, KENTCUKY 42024.		ASBESTOS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: N/A
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/03/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: N/A
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/02/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMs by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 800-424-9346
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/02/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022	Source: EPA
Date Data Arrived at EDR: 11/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 12/21/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022	Source: Department of the Navy
Date Data Arrived at EDR: 11/08/2022	Telephone: 843-820-7326
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 02/03/2023
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include 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.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include 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. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 12/14/2022

Telephone: 202-267-2180

Date Made Active in Reports: 12/19/2022

Last EDR Contact: 12/14/2022

Number of Days to Update: 5

Next Scheduled EDR Contact: 04/03/2023

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/14/2022

Source: Department of Environmental Protection

Date Data Arrived at EDR: 09/15/2022

Telephone: 502-564-6716

Date Made Active in Reports: 12/06/2022

Last EDR Contact: 11/15/2022

Number of Days to Update: 82

Next Scheduled EDR Contact: 03/06/2023

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/25/2022

Source: Department of Environmental Protection

Date Data Arrived at EDR: 10/24/2022

Telephone: 502-564-6716

Date Made Active in Reports: 01/12/2023

Last EDR Contact: 01/24/2023

Number of Days to Update: 80

Next Scheduled EDR Contact: 05/08/2023

Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 08/01/2022

Source: Department of Environmental Protection

Date Data Arrived at EDR: 10/03/2022

Telephone: 502-564-5981

Date Made Active in Reports: 12/14/2022

Last EDR Contact: 01/04/2023

Number of Days to Update: 72

Next Scheduled EDR Contact: 04/17/2023

Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022

Source: EPA, Region 5

Date Data Arrived at EDR: 06/13/2022

Telephone: 312-886-7439

Date Made Active in Reports: 08/16/2022

Last EDR Contact: 01/17/2023

Number of Days to Update: 64

Next Scheduled EDR Contact: 05/01/2023

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-6597
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 01/17/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-8677
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SB193: SB193 Branch Site Inventory List

The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/13/2006	Telephone: 502-564-5981
Date Made Active in Reports: 10/18/2006	Last EDR Contact: 04/08/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 12/28/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/03/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/22/2022	Telephone: 502-564-5981
Date Made Active in Reports: 11/09/2022	Last EDR Contact: 11/16/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

Date of Government Version: 06/01/2021	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 06/02/2021	Telephone: 502-564-4010
Date Made Active in Reports: 08/23/2021	Last EDR Contact: 02/02/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-9424
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing
A listing of sites that use engineering controls.

Date of Government Version: 09/14/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/15/2022	Telephone: 502-564-6716
Date Made Active in Reports: 12/06/2022	Last EDR Contact: 11/15/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

INST CONTROL: State Superfund Database

A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 09/14/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/15/2022	Telephone: 502-564-6716
Date Made Active in Reports: 12/06/2022	Last EDR Contact: 11/15/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/06/2023
	Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/13/2022
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 10/11/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/12/2022	Telephone: 502-564-6716
Date Made Active in Reports: 12/23/2022	Last EDR Contact: 12/20/2022
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 10/27/2022	Source: Division of Compliance Assistance
Date Data Arrived at EDR: 10/27/2022	Telephone: 502-564-0323
Date Made Active in Reports: 01/12/2023	Last EDR Contact: 01/09/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-566-2777
Date Made Active in Reports: 03/10/2022	Last EDR Contact: 12/07/2022
Number of Days to Update: 0	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Kentucky.

Date of Government Version: 09/04/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/14/2020	Telephone: 502-564-6716
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 01/13/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/30/2006	Telephone: 502-564-6716
Date Made Active in Reports: 05/01/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 32	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/20/2023
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/13/2023
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Location Listing

Clandestine drug lab site locations.

Date of Government Version: 09/14/2022
Date Data Arrived at EDR: 09/15/2022
Date Made Active in Reports: 12/06/2022
Number of Days to Update: 82

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 10/31/2022
Date Data Arrived at EDR: 11/02/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 83

Source: DEP, Emergency Response
Telephone: 502-564-2380
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/03/2023
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/02/2023
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All 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 clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/19/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/20/2022	Telephone: 202-566-1917
Date Made Active in Reports: 12/22/2022	Last EDR Contact: 12/14/2022
Number of Days to Update: 93	Next Scheduled EDR Contact: 04/03/2023
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 01/30/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/03/2023
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/12/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/27/2023
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 11/01/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/27/2023
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022	Source: EPA
Date Data Arrived at EDR: 10/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/18/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 703-416-0223
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/02/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 202-564-6023
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/02/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 11/22/2022	Telephone: 301-415-7169
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 11/29/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 11/23/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/03/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/06/2023
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021	Source: Department of Energy
Date Data Arrived at EDR: 07/27/2021	Telephone: 202-586-3559
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 01/30/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 11/09/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 02/27/2023
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/01/2022	Telephone: 703-603-8787
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 02/02/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/13/2022
Date Data Arrived at EDR: 09/14/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 60

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

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. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

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 VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a 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. The information is commonly used for research and assessments of environmental quality.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilities name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/05/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Varies

PFAS: PFAS Detections Site Listing

The presence of PFAS contamination at locations, including water treatment plants.

Date of Government Version: 09/07/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/08/2022	Telephone: 502-564-3410
Date Made Active in Reports: 11/29/2022	Last EDR Contact: 11/30/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/20/2023
	Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

Date of Government Version: 08/08/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/09/2022	Telephone: 502-573-3382
Date Made Active in Reports: 10/27/2022	Last EDR Contact: 01/23/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Semi-Annually

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 09/14/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/14/2022	Telephone: 502-782-6780
Date Made Active in Reports: 12/06/2022	Last EDR Contact: 11/28/2022
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/13/2023
	Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal ash pond site locations.

Date of Government Version: 08/25/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/24/2022	Telephone: 502-564-6716
Date Made Active in Reports: 01/12/2023	Last EDR Contact: 01/24/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaner Listing

A listing of drycleaner facility locations.

Date of Government Version: 08/08/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/09/2022	Telephone: 502-573-3382
Date Made Active in Reports: 10/27/2022	Last EDR Contact: 01/23/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information.

Date of Government Version: 11/14/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/03/2023
Number of Days to Update: 79

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 06/24/2014
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/14/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/03/2023
Number of Days to Update: 79

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

LEAD: Environmental Lead Program Report Tracking Database

Lead Report Tracking Database

Date of Government Version: 01/27/2017
Date Data Arrived at EDR: 02/02/2017
Date Made Active in Reports: 08/21/2017
Number of Days to Update: 200

Source: Department of Public Health
Telephone: 502-564-4537
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 08/17/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 11/09/2022
Number of Days to Update: 84

Source: Department of Environmental Protection
Telephone: 502-564-3410
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Semi-Annually

UIC: UIC Information

A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 07/28/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/23/2022
Number of Days to Update: 77

Source: Kentucky Geological Survey
Telephone: 859-323-0544
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/01/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes

Source: Cabinet for Families & Children

Telephone: 502-564-7130

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Environmental & Public Protection Cabinet

Telephone: 502-564-6736

STREET AND ADDRESS INFORMATION

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