



**ASHWOOD SOLAR SITE
2,045.5-Acre Property,
Lyon and Caldwell Counties, Kentucky
Phase I Environmental Site Assessment**

Report Date

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Sign-off Sheet and Signatures of Environmental Professionals

This document entitled Ashwood Solar Site Phase I Environmental Site Assessment was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of RWE Solar Development, LLC (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

All information, conclusions, and recommendations provided by Stantec in this document regarding the Phase I ESA have been prepared under the supervision of and reviewed by the professionals whose signatures appear below.

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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 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.

Independent Reviewer: Dave Rautmann

Dave Rautmann, PE Senior Principal



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Abbreviations

| | |
|-------------------|--|
| AAI | All Appropriate Inquiry |
| 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 |
| DDT | Dichlorodiphenyltrichloroethane |
| ECHO | Enforcement & Compliance History Information |
| EDR | Environmental Data Resources, Inc. |
| EP | Environmental Professional |
| EPA | Environmental Protection Agency |
| ESA | Environmental Site Assessment |
| FINDS | Facility Index System/Facility Registry System database |
| ft amsl | Feet above mean sea level |
| ft bgs | Feet below ground surface |
| HREC | Historical Recognized Environmental Conditions |
| NRCS | Natural Resources Conservation Service |
| PCBs | Polychlorinated Biphenyls |
| RCRA NonGen / NLR | Resource Conservation and Recovery Act – Non Generators / No Longer Regulated database |
| REC | Recognized Environmental Conditions |
| SHWS | State Hazardous Waste Sites database |
| SMG | Smith Management Group |
| US | United States |
| USDA | United States Department of Agriculture |
| USGS | United States Geological Survey |



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| | |
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| UST | Underground Storage Tank |
| VEC | Vapor Encroachment Condition |



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1.0 SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) report of the property consisting of Lyon and Caldwell Counties, Kentucky Parcels 38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6, and 49-8 (the "Property"), on behalf of RWE Solar Development, LLC (RWE) (the "Client"). This Phase I ESA was conducted in accordance with the terms and conditions of Stantec's Master Professional Services Agreement with RWE Solar Development, LLC dated September 10, 2019 and signed by the Client on December 6, 2019, and Stantec's Task Order dated May 28, 2020. RWE (the "User") has been designated as the User of this report.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) Designation E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and All Appropriate Inquiry (AAI) as defined by the US-EPA in Title 40 of the Code of Federal Regulations, Part 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 Property consists of a 2,045.5-acre collection of parcels associated with the proposed Ashwood Solar Site in Lyon and Caldwell Counties, Kentucky. The Property is transected by US Route 641. The Property is north of US Interstate 69, west of KY-91 (Marion Road), and contains several secondary roads throughout the Property. The Property is rural and comprised primarily of agricultural land, including wheat, corn, and soybean farming. Several small forested areas, which are generally associated with sinkholes, exist throughout the Property. Approximately four barns, several sheds, hunting stands/structures, and an old hog barn exist on the Property. Surrounding properties are similar to the Property, and are primarily agricultural and cow pasture, with a few single-family residences scattered throughout the area. Western Kentucky Correctional Complex is located approximately 0.6 mile south of the Property, and the Fredonia Valley Quarry is located approximately 1 mile north of the Property. Two 161 kV transmission lines transect the southwestern most parcels running northeast and southwest. A Property Location map is provided as Figure 1. A Property Vicinity map depicting the main features of the Property is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

The following items of note were identified during this ESA:

- The Property's current and historical use includes agricultural row crop farming since 1936.

A wide variety of pesticides were applied on agricultural land, especially arsenic-based pesticides until the late 1960s. Other pesticides of concern are lead-based compounds, dichlorodiphenyltrichloroethane (DDT) and aldrin/dieldrin. Lead and arsenic are highly persistent in the environment and will remain in the environment indefinitely. Based on the history of agricultural use on-site, there is a potential that historic pesticide applications may have impacted the Property. Stantec did not find evidence of chemical mixing areas or airstrips or maintenance areas on the Property. Notwithstanding, the shallow soils may still contain some pesticide residue and metals impacts. The historical and current agricultural use of the Property is not considered to be a recognized environmental condition (REC) based on the continued use for agriculture and



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the additional intended use as a solar generation facility; however, this is considered a Business Environmental Risk (BER).

- One sinkhole on Parcel 39-6 was observed being used as a dumping site for household waste including metal sheeting, small aluminum soda cans, oil containers (<5 gallons), antifreeze containers, and aerosols.

No stressed vegetation, leaking, or staining were observed in association with the household waste in the sinkhole. Based on the topographic location of the sinkhole relative to the Property and the lack of stressed vegetation, leaking or staining, the sinkhole dumping site is considered to be *de minimis*.

- One 5-gallon plastic oil container located in the Tobacco Barn on Parcel 38-20 was observed half-full of engine oil.

The oil container did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the container does not represent a REC.

- Several approximately 5-gallon gasoline containers were observed inside and outside the shed on Parcel 38-20.

The gasoline containers were observed in good condition and did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the gasoline containers do not represent RECs.

- Approximately four 1000-gallon aboveground storage tanks (ASTs) and five 250-gallon liquid propane ASTs were observed throughout the Property. Two of the 1000-gallon ASTs were observed adjacent to the warehouse building on Parcel 49-8 and are presumed to contain gasoline. Two of the 1000-gallon ASTs were observed empty with unknown former contents. Four of the liquid propane ASTs were associated with the residences and warehouse on Parcel 49-8 and were observed in good condition. One liquid propane AST was observed in a dumping site on Parcel 49-8 and is presumed to be empty.

The ASTs did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the ASTs do not represent RECs.

- Approximately six empty 55-gallon drums were observed throughout the Property with unknown former contents.

The drums did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the drums do not represent RECs.

- The previous Phase I ESA for the Property identified one suspected REC for the Property associated with a sinkhole containing household appliances and a partially buried metal cavity of unknown contents and protruding pipe on Parcel 38-14 (Smith Management Group [SMG] 2018). Stantec visited the area previously considered a REC and observed the sinkhole to contain 3 ovens, 8-10 rolls of wire fencing, and various household debris. Stantec did not observe the metal tank or protruding pipe described in the previous Phase I ESA.

Based on Stantec's visit to the area previously considered a REC and determination that the metal cavity and protruding pipe are no longer visible, the sinkhole no longer represents a REC.



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We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of Lyon and Caldwell Counties, Kentucky Parcels 38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6, and 49-8, the property. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Property. No further investigation appears to be warranted at this time.

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



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2.0 INTRODUCTION

The objective of this Phase I ESA was to perform All Appropriate Inquiry (AAI) into the past ownership and uses of the Property consistent with good commercial or customary practice as outlined by the ASTM in “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, Designation E1527-13. “All Appropriate Inquiry” (AAI) 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 Property.

The ASTM E1527-13 standard indicates that the purpose of the Phase I ESA is to identify RECs, including historical recognized environmental conditions (“HRECs”), and controlled recognized environmental conditions (“CRECs”) that may exist at a property. The term “recognized environmental conditions” means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

1. Due to any release to the environment;
2. Under conditions indicative of a release to the environment; or
3. Under conditions that pose a material threat of a future release to the environment.

ASTM defines a “HREC” as a REC that has occurred in connection with a property, but 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., property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a HREC, the environmental professional (EP) must determine whether the past release is a REC when the current Phase I ESA is conducted (e.g., if there has been a change in the regulations). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as 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., property use restrictions, 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 presence of hazardous substances or petroleum products is, however, not a REC if that presence is a *de minimis* condition. De minimis conditions are minor occurrences of contamination 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 governmental agencies. ASTM also considers the potential for a business environmental



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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 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 the terms and conditions of Stantec's Master Professional Services Agreement with RWE Solar Development, LLC dated September 10, 2019 and signed by the Client on December 6, 2019, and Stantec's Task Order dated May 28, 2020. The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the 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 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 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 E1527-13 notes that the availability of record information varies from source to source. The User or Environmental Professional 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 PROPERTY DESCRIPTION

The Property consists of a 2,045.5-acre collection of parcels associated with the proposed Ashwood Solar Site in Lyon and Caldwell Counties, Kentucky. The Property is transected by US Route 641. The Property is north of US Interstate 69, west of KY-91 (Marion Road), and contains several secondary roads throughout the Property. The Property is rural and comprised primarily of agricultural land, including wheat, corn, and soybean farming. Several small forested areas, which are generally associated with sinkholes, exist throughout the Property. Approximately four barns, several sheds, hunting stands/structures, and an old hog barn exist on the Property. Surrounding properties are similar to the Property, and are primarily agricultural and cow pasture, with a few single-family residences scattered throughout the area. Western Kentucky Correctional Complex is located approximately 0.6 mile south of the Property, and the Fredonia Valley Quarry is located approximately 1 mile north of the Property. Two 161 kV transmission lines transect the southwestern most parcels running northeast and southwest. A Property Location map is provided as Figure 1. A Property Vicinity map depicting the main features of the Property is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.



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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 Property.

This report provides an evaluation of selected environmental conditions associated with the 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. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in 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 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 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 Property, the absence of this information did not affect the ability of the Environmental Professionals to identify RECs, HRECs, CRECs, or de minimis conditions.

This report relates solely to the specific project for which Stantec was retained and the stated purpose for which this report was prepared and shall not be used or relied upon by client for any variation or extension of this project, any other project, or any other purpose.

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.



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Project Specific limiting conditions are provided in Section 2.2.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures, are not guaranteed. Before starting site work, the exact location of all such utilities and structures must be confirmed by the client and the party performing the work, and Stantec assumes no liability resulting from damage to such utilities and structures.

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

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

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 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. It is recommended that issues raised by the report should be reviewed for the client by its legal counsel.

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.



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User-Provided Information
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3.0 USER-PROVIDED INFORMATION

ASTM E1527-13 describes responsibilities of the User to complete certain tasks in connection with the performance of “All Appropriate Inquiries” into the Property. The ASTM standard requires that the Environmental Professional 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 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 | No | The User Questionnaire has not been returned at the time of this report. |
| Environmental Liens or Activity Use Limitations | No | Not provided for review. |
| Previous Environmental Permits or Reports Provided by User | Yes | A Phase I ESA for the Property, except for parcel 49-8, dated November 2018 was previously completed by Smith Management Group. One REC was identified in the November 2018 report. Pertinent information is used and referenced throughout. |
| Purpose of the Phase I ESA | Yes | The purpose of the Phase I ESA is for the long-term lease of the Property in anticipation of development and construction of solar photovoltaic generator. |

Stantec forwarded the ASTM recommended User Questionnaire to Sean Pattee of RWE Solar Development, LLC on June 22, 2020. At the time of this report, the completed User Questionnaire was not returned.

The previous Phase I ESA completed for the solar array associated with the Property identified one REC for the Property, which is addressed in this report. The REC identified in the previous Phase I ESA included a sinkhole depression filled with household appliances and a partially buried metal cavity and protruding pipe on Parcel 38-14. The cavity and disposal area were considered a REC due to the unknown contents of the cavity and potential for additional buried material in the depression (SMG 2018). However, when Stantec visited the site, conditions had changes and the metal cavity and protruding pipe were no longer visible. While this sinkhole may have been a REC during previous visits, current conditions are not indicative of a REC.



Records Review
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4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the 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 Property. During the review of historical records, Stantec attempted to identify uses of the Property from the present to the first developed use of the 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 Property is provided in the table below with additional details in the following subsections

| | |
|---|---|
| Topography: | The Property is generally flat with gentle rolling hills and depressions associated with sinkholes and karst topography. The Property terrain ranges from approximately 420 feet above mean sea level (ft amsl) to approximately 470 ft amsl (United States Geological Survey [USGS] 2019a-d). |
| Soil/Bedrock Data: | Bedrock on the Property is composed of Ste. Genevieve and St. Louis Limestones, undivided (USGS 2017). Soils primarily consist of well-drained Crider silt loam, Crider-Pembroke silt loam, and Hammack-Baxter Complex, none of which are listed as hydric (United States Department of Agriculture Natural Resources Conservation Service [USDA NRCS] 2019). |
| Estimated Depth to Groundwater/ Estimated Direction of Gradient: | Based on electronic database results provided by EDR, water wells within, and near, the Property indicate that groundwater levels are at approximately 15 - 120 feet below ground surface (bgs). Groundwater is generally expected to flow southeast. |
| 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 Property Topography and Surface Water Flow

Topographical features have been assessed using onsite analysis and aerial photography, as available through the USGS 7.5-minute topographical map. The Property is generally flat with gentle rolling hills and depressions associated with sinkholes and karst topography. The Property terrain ranges from approximately 420 ft amsl to approximately 470 ft amsl.

4.1.2 Regional and Property Geology

The Property is located in Lyon and Caldwell Counties, Kentucky. Bedrock on the Property is composed of Ste. Genevieve and St. Louis Limestones, undivided (USGS 2017). Soils primarily consist of well-



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drained Crider silt loam, Crider-Pembroke silt loam, and Hammack-Baxter Complex. None of the soil groups are listed as hydric (USDA NRCS 2019).

4.1.3 Regional and Property Hydrogeology

Based on the EDR report, water wells within the Property indicate that groundwater levels are at approximately 15 - 120 ft bgs. Groundwater is expected to flow southeast.

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from 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 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 Property. As described in 4.1.3, the inferred shallow groundwater flow direction is likely to be to the southwest. Observations about the Property and surrounding properties made during the Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Property

The Property was not identified in the environmental database report.

4.2.2 Listings for Nearby Sites with Potential to Impact Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjacent and nearby sites to pose a REC, CREC, or HREC for the Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Property from a nearby property, including by vapor migration or encroachment [i.e., potential for a vapor encroachment condition (VEC)].

Based on this evaluation, the following individual facilities were identified as the most likely potential sources of impact to the Property. Stantec considers the listings in the database search report provided in Appendix D to not constitute a potential REC for the Property.

| Listed Facility Name/Address | Database Listing | Distance/Direction from Property | REC? (YES / NO) |
|--|------------------------------------|--|-----------------|
| Western Kentucky Correctional Complex 374 New Bethel Church Road Eddyville, KY 42038 | State Hazardous Waste Sites (SHWS) | Approximately 0.6 mile SSE of the Property | No |



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| Listed Facility Name/Address | Database Listing | Distance/Direction from Property | REC? (YES / NO) |
|---|--------------------------------|---|-----------------|
| <p>This facility is identified as the Western Kentucky Correctional Complex and is listed in the State Hazardous Waste Sites (SHWS) Database. This facility was listed due to petroleum contamination and was subsequently cleaned up to give the facility of status of "closed" in 1997.</p> <p>Based on the facility's status of "closed" and the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |
| Western Kentucky Correctional Complex 374 New Bethel Church Road Fredonia, KY 42411 | AST | Approximately 0.6 mile SSE of the Property | No |
| <p>This facility is listed as an orphan site and is identified as the Western Kentucky Correctional Complex; listed in the State AST Database. This facility was listed as a commercial permit, however the current status of the permit is "cancelled".</p> <p>Based on the facility's permit status of "cancelled" and the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |
| Ashland Petroleum Co. #251-000 Highway 641 Fredonia, KY 42411 | RCRA NonGen / NLR | Approximately 1.8 miles N of the Property | No |
| <p>This facility is listed as an orphan site and identified as the Ashland Petroleum Co. #251-000 site; listed in the Resource Conservation and Recovery Act – Non Generators / No Longer Regulated (RCRA NonGen / NLR) Database. This facility is listed as an inactive Large Quantity Generator, which was last evaluated in 1999.</p> <p>Based on the facility's inactive status, lack of violation history, and the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |
| Coatings Unlimited Inc/ Bremner Bakery Highway 62 Princeton, KY 42445 | RCRA NonGen / NLR, FINDS, ECHO | >1.4 miles from the Property | No |
| <p>This facility is listed as an orphan site and identified as the Coatings Unlimited Inc/ Bremner Bakery; listed in the RCRA NonGen / NLR, Facility Index System/Facility Registry System (FINDS), and Enforcement & Compliance History Information (ECHO) Databases. This facility is listed as an inactive commercial bakery, which was last evaluated in 1995.</p> <p>Based on the facility's inactive status, lack of violation history, and the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |
| Princeton, KY Satellite 1301 Highway 62 West Princeton, KY 42445 | FINDS | Approximately 5.8 miles ESE of the Property | No |
| <p>This facility is listed as an orphan site and identified as the Princeton, KY Satellite site; listed in the FINDS Database. This facility is listed as a farm supplies merchant wholesaler.</p> <p>Based on the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |



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| Listed Facility Name/Address | Database Listing | Distance/Direction from Property | REC? (YES / NO) |
|--|---------------------|----------------------------------|-----------------|
| D & L Properties Highway 91, Western KY Parkway Princeton, KY 42445 | Financial Assurance | >2 miles from the Property | No |
| <p>This facility is listed as an orphan site and identified as the D & L Properties site; listed in the Financial Assurance Database which provides financial assurance information for Underground Storage Tank (UST) facilities. Based on the database, the facility appears to contain a UST.</p> <p>Based on the distance from the facility to the Property, this listing is not considered a REC.</p> | | | |

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

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

4.3.1 Fire Department

| Agency Name, Contact Information | Findings |
|--|--|
| Fire Chief, Josh Schenk Eddyville Fire Department eddyvillefd524@yahoo.com 7/8/2020 | Stantec reached out to Fire Chief Josh Schenk on July 8, 2020 via email correspondence. At the time of this report, no response had been received. Should any pertinent information affecting the conclusions of this report become available which changes the findings and opinions presented herein, Stantec will issue an addendum to this report. However, given the Property use and historical information available for the Property a lack of a response from this agency is not considered a significant data gap. |

4.3.2 Local Building and/or Planning Department Records Local Building and/or Planning Department Records

| Agency Name, Contact Information | Findings |
|---|--|
| Lyon County Property Valuation Administrator's Office https://qpublic.net | <p>The Property consists of Lyon and Caldwell Counties, Kentucky Parcels 38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6, and 49-8.</p> <p>The parcels associated with the Property are classified as "Farm" and, based on Lyon County Property Valuation Administrator's Office information, have no electric, water, gas or sewer utilities.</p> |



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4.3.3 Pipeline and Hazardous Materials Safety Administration

| Agency Name, Contact Information | Findings |
|---|---|
| Pipeline and Hazardous Materials Safety Administration National Pipeline Mapping System (NPMS) https://pvnpm.phmsa.dot.gov/PublicViewer/ | One underground natural gas pipeline was observed during the site visit. According to NPMS records for Lyon and Caldwell Counties, Kentucky the owner is listed as Texas Gas Transmission, LLC. |

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 Google Earth and HistoricalAerials.com in addition to aerial photographs provided by GeoSearch during the previous Phase I ESA for the Property, completed by Smith Management Group, dated November 2018. In addition, supplemental aerial photographs were obtained from the USDA NRCS National Agricultural Imagery Program (2018), as seen in Figure 2. 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. No RECs were identified as a result of the review of the aerial photographs. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

| Year | Observations, Property and Adjoining Properties |
|------|--|
| 1936 | The aerial photograph is not easily discernable; the Property appears to primarily consist of agricultural land with smaller forested patches located throughout the Property. The landscape appears typical of karst topography, with many sinkholes and ponds located throughout the Property. |
| 1952 | The aerial photograph is not easily discernable; several structures appear to be located throughout the Property. Otherwise, no apparent changes are visible. Adjacent to the Property, the Fredonia Valley Quarry northeast of the Property appears at its current location. |
| 1959 | The aerial photograph is not easily discernable; no apparent changes are visible. |
| 1965 | The aerial photograph is not easily discernable; no apparent changes are visible. |
| 1973 | The aerial photograph is not easily discernable; no apparent changes to the Property are visible. South of the Property, development appears to have occurred in the present location of the Western Kentucky Correctional Complex. |
| 1983 | A forested area in the northern portion of Parcel 38-5 appears to have been cleared. |



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| Year | Observations, Property and Adjoining Properties |
|---------------------|---|
| 1993 | Portions of Parcels 38-15 and 38-16 appear as lower elevation drainage ditches. A portion of Parcel 39-2 appears to be reforestation. South of the Property, development appears to have continued in the present location of the Western Kentucky Correctional Complex. |
| 1998 | No apparent changes are visible |
| 2004 | A small forested patch on Parcel 39-6 appears to have been cleared for agriculture. Adjacent to the Property, the Fredonia Valley Quarry located northwest of the Property appears to have expanded. South of the Property, development appears to have continued in the present location of the Western Kentucky Correctional Complex. |
| 2006 | No apparent changes are visible |
| 2008 | No apparent changes are visible |
| 2010 | No apparent changes are visible |
| 2012 | No apparent changes are visible |
| 2014 | No apparent changes are visible |
| 2016 | No apparent changes are visible |
| 2018 (See Figure 2) | No apparent changes are visible |

Sources: GeoSearch. Aerial Photographs, Job Number 266056. November 13, 2018; USDA NRCS National Agricultural Imagery Program (2018).

4.4.3 City Directories

Stantec did not search city directory records, however the site and surrounding area is primarily comprised of rural agriculture and residential land.

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 Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Property uses.

Stantec did not request fire insurance maps from EDR. Due to the rural nature of the Property, it is assumed that no coverage exists.

4.4.5 Historical Topographic Maps

Stantec reviewed historical 7.5-Minute Topographic Maps of the Eddyville, Fredonia, Crider, and Princeton West Quadrangles (scale 1:24,000) provided by EDR, and supplemental topographic maps from the USGS, as seen in Figure 1. The historical topographic maps were used to help identify past Property usage and areas of potential environmental concern.



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No RECs were identified as a result of the 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, Property and Adjoining Properties |
|--|-----------|--|
| 1928 (Eddyville) | 1: 48,000 | The Property and surrounding area are depicted as having several sinkholes and unimproved roads located throughout. Highway 1943, Coleman Doles Road, US Highway 641, and Beck Road are depicted similarly to their current locations. Several schools and a church are depicted surrounding the Property, including Oakgrove School, Jones School, Shelby School, Wilson School, and New Bethel Church. Brewster Creek is depicted as flowing generally from north to south through Parcel 49-8. |
| 1931 (Eddyville) | 1: 62,500 | The topographic mapping now includes color indicating the presence of ponds and waterbodies. No apparent changes are visible. |
| 1954 (Fredonia, Eddyville, Crider, Princeton West) | 1: 24,000 | The topographic mapping now includes color indicating the presence of forested areas depicted throughout the eastern and western portions of the Property as small patches. The general area of the Property is depicted as "Fredonia Valley". Unimproved roads previously depicted in Parcel 38-20 and Parcel 49-6 are no longer depicted. An electrical transmission line is depicted transecting the Property in the southwest-northeast direction. Schools are no longer depicted surrounding the Property. The State Penal Farm appears south of the Property. Skinframe Creek is depicted east of the Property, flowing generally from northwest to southeast. A spillway is depicted southwest of the Property. The Fredonia Valley Quarry is depicted northeast of the Property. |
| 1955 (Eddyville) | 1: 62,500 | No apparent changes are visible. |
| 1967 (Eddyville, Princeton West, Crider) | 1: 24,000 | The Property is not depicted in the topographic mapping. No apparent changes in surrounding areas are visible. |
| 1973 (Eddyville) | 1: 24,000 | The Property is not depicted in the topographic mapping. No apparent changes in surrounding areas are visible. |
| 2013 (Eddyville, Fredonia, Crider, Princeton West) | 1: 24,000 | Several additional forest patches are depicted throughout the Property. A road, labeled "Breezy Loop" is depicted in portions of Parcels 38-13, 38-14, and 39-2. The power transmission line transecting the Property is no longer depicted. The spillway depicted southwest of the Property is no longer depicted. |
| 2019 (Eddyville, Fredonia, Crider, Princeton Wes; See Figure 1) | 1: 24,000 | The road labeled "Breezy Loop" is no longer depicted. No other apparent changes are visible. |



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Sources: EDR Historical Topographic Map Report, Inquiry Number 6099166.4, June 22, 2020; USGS 7.5-Minute Eddyville, Fredonia, Crider, and Princeton West (2019) Kentucky Quadrangles Topographic Maps (scale 1:24,000).

4.4.6 Other Historical Sources

A Phase I ESA for the Property, except for parcel 49-8, dated November 2018, was previously completed by Smith Management Group. Pertinent information is used and referenced throughout.

The previous Phase I ESA completed for the solar array associated with the Property identified one REC for the Property, which is addressed in this report. The REC identified in the previous Phase I ESA included a sinkhole depression filled with household appliances and a partially buried metal cavity and protruding pipe on Parcel 38-14. The cavity and disposal area were considered a REC due to the unknown contents of the cavity and potential for additional buried material in the depression.

No other historical sources were researched.



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5.0 SITE RECONNAISSANCE

A visit to the Property and its vicinity was conducted by Niky Vahanian and Justin Ahn of Stantec on June 17 through 20, 2020 and a return visit was conducted by Shane Kelley on September 28, 2020. Stantec was unaccompanied during the Property visits. Figure 2 provides information about the Property and adjoining properties and the location of potential areas of environmental concern. Photographs collected during the Property visits 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 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 Property boundary.
- Traverse transects across the Property.
- Traverse the periphery of all occupied structures on the Property.
- Observe interiors of vacant buildings on the Property

Weather conditions during the visits to the Property were clear and sunny. There were no weather-related Property access restrictions encountered during the reconnaissance visits. Interiors of two barns, the warehouse, and the residences on the Property were unable to be accessed.

5.2 GENERAL DESCRIPTION

| | |
|--|--|
| Property and Area Description: | The Property is transected by US Route 641, is generally north of US Interstate 69, west of KY-91 (Marion Road), and is approximately situated between the towns of Eddyville and Fredonia, Kentucky. |
| Property Operations: | The Property is rural and dominated by agriculture, including wheat, corn, and soybean farming. |
| Structures, Roads, Other Improvements: | There are approximately four old barns, one standing shed, two hunting stands/structures, and two residences with various outbuildings including one warehouse located throughout the Property. There are several agricultural unpaved roads associated with farming operations throughout the Property, but no paved roads are located on the Property. |
| Property Size (acres): | Approximately 2,045.5 acres |
| Estimated % of Property Covered by Buildings and/or Pavement: | <1% |
| Observed Current Property Use/Operations: | The Property was observed as currently undergoing farm operations including wheat, corn, and soybean farming. Several hunting stands/structures were observed throughout the Property suggesting portions of the Property are currently used for hunting. |



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| | |
|---|--|
| Observed Evidence of Past Property Use(s): | Several old barns and sheds located throughout the Property and rusted farm equipment throughout the Property suggest primarily agricultural historical use of the Property. One of the barns was previously used as a tobacco barn and sits adjacent to approximately four grain silos. An old hog barn and feeding trough observed on Parcel 38-20 suggests the additional historical use of the Property as a hog barn. |
| Sewage Disposal Method (and age): | None observed |
| Potable Water Source: | One center-pivot irrigation water well was observed on the Property. |
| Electric Utility: | There are electrical transmission lines surrounding the Property that assumedly provide service to the observed center-pivot irrigations system and residences. |

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

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

| Observations | Description/Location |
|---|--|
| Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14): | <p>Several 5-gallon containers, 55-gallon drums and ASTs were observed throughout the Property.</p> <p>One 5-gallon plastic oil container located in the Tobacco Barn on Parcel 38-20 was observed half-full of engine oil. No leaking or staining was observed.</p> <p>Several approximately 5-gallon gasoline containers were observed inside and outside the shed on Parcel 38-20. The gasoline containers were observed in good condition with no leaking or staining.</p> <p>One 55-gallon, metal, rusted drum filled with dirt was observed on Parcel 39-6. Small remnants of oil appeared to be present although no leaking or staining was observed.</p> <p>Approximately nine ASTs were observed throughout the Property with unknown contents or liquid propane. No leaking or staining was observed as associated with the observed ASTs.</p> |
| Drums (≥ 5 gallons): | <p>Six approximately 55-gallon metal and plastic drums were observed on the Property.</p> <p>Two 55-gallon, empty, metal, rusted drums of unknown former contents were observed in and adjacent to the collapsed sheds on Parcel 38-20. Based on their current state, the drums appear to have been used as burn barrels. No leaking or staining was observed in association with either of the drums.</p> <p>One 55-gallon, presumably empty, rusted, metal drum of unknown former contents was observed in a dumping site on Parcel 39-6, no leaking or staining was observed in association with the drum, however observations were limited</p> |



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| Observations | Description/Location |
|---|--|
| | <p>based on surrounding heaps of containers and other miscellaneous household items.</p> <p>Two 55-gallon, empty drums of unknown former contents were observed in dumping sites on Parcel 49-8. One drum is plastic, and one drum is metal. Neither were observed with leaking or staining.</p> <p>One 55-gallon, metal, rusted drum filled with dirt was observed on Parcel 39-6. Small remnants of oil appeared to be present although no leaking or staining was observed.</p> |
| Strong, Pungent, or Noxious Odors: | None detected |
| Pools of Liquid: | None observed |
| Unidentified Substance Containers: | Several empty non-labeled small (<5 gallon) containers were observed in the Tobacco Barn on Parcel 38-20 and in a dumping site on Parcel 39-6. Based on labels on some of the containers, the unidentified substance containers are assumed to have contained oil, antifreeze, and aerosols. |
| PCB-Containing Equipment: | None observed. |
| Other Observed Evidence of Hazardous Substances or Petroleum Products: | One natural gas pipeline was observed along the southern boundary of Parcel 39-2. |

5.4 INTERIOR OBSERVATIONS

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

| Observations | Description |
|-------------------------------------|---|
| Heating/Cooling Method: | Liquid propane ASTs were observed adjacent to several residences in and surrounding the Property. Liquid propane is assumed to be the primary heating source for residences in the area. |
| Surface Stains or Corrosion: | None observed |
| Floor Drains and Sumps: | None observed |
| Other Interior Observations: | One half-full, plastic 5-gallon oil container was observed in the Tobacco Barn on Parcel 38-20. No leaking or staining was observed. A boat and other miscellaneous items were observed in the Tobacco Barn. Several miscellaneous household items, small gasoline containers, and one 55-gallon, empty drum of unknown former contents were observed in the shed on Parcel 38-20. The interiors of the grain silos adjacent the Tobacco Barn on Parcel 38-20 were observed to be empty. The barn on Parcel 38-20 was observed to be empty. |



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5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the 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: | Several ponds were observed located throughout the Property. No evidence of hazardous materials was observed in connection with the ponds including noxious odors, stressed vegetation, sheens, or dead flora or fauna. |
| Stained Soil or Pavement: | None observed |
| Stressed Vegetation: | None observed |
| Waste Streams and Waste Collection Areas: | None observed |
| Solid Waste Disposal: | Several sinkholes located throughout the Property were observed being used as solid waste dumping sites. One sinkhole, considered to be a REC during a previous Phase I ESA (SMG 2018), based on observation of a metal cavity and protruding pipe, was observed by Stantec to contain 3 ovens, 8-10 rolls of wire fencing, and various household debris. Stantec did not observe the metal tank or protruding pipe described in the previous Phase I ESA. |
| Potential Areas of Fill Placement: | Fill material was observed in several of the sinkholes located throughout the Property. Discussion with leasing farmers of portions of the Property indicated that Property lessees and owners have filled in sinkholes to maintain the land. A large cement pile was observed on Parcel 39-6. |
| Wastewater: | No exterior wastewater discharge was observed. |
| Stormwater: | No stormwater management systems were observed. It appears that all runoff from the farm fields flows into the various sinkholes and wetlands located throughout the Property or to the several streams surrounding the Property. |
| Wells: | None observed |
| Septic Systems: | No visible evidence of the existence of a septic system was observed; however, based on the rural nature of the Property, they may be the primary sanitary waste disposal method for the structures. |
| Other Exterior Observations: | A hunting/storage structure was observed along a pond on Parcel 49-8. A tree stand was observed adjacent to the collapsed sheds on Parcel 38-20. |



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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: | None observed |

5.7 ABOVEGROUND STORAGE TANKS

| | |
|-----------------------|---|
| Existing ASTs: | <p>Approximately four 1000-gallon ASTs and five 250-gallon liquid propane ASTs were observed throughout the Property, on Parcel 49-8:</p> <p>Two of the 1000-gallon ASTs were observed adjacent to the warehouse building on Parcel 49-8 and are presumed to contain gasoline.</p> <p>Two of the 1000-gallon ASTs were observed empty with unknown former contents.</p> <p>Four of the liquid propane ASTs were associated with the residences and warehouse on Parcel 49-8 and were observed in good condition.</p> <p>One liquid propane AST was observed in a dumping site on Parcel 49-8 and is presumed to be empty.</p> <p>The ASTs did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the ASTs do not represent RECs.</p> |
| 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 Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining properties:

| | |
|--------------|--|
| NORTH | This property appears to be used primarily for agriculture. This property contains the Fredonia Valley Quarry. |
| EAST | This property appears to be used primarily for agriculture, with some forested areas located throughout. |
| SOUTH | This property appears to be used primarily for agriculture, with some forested areas located throughout. This property contains the Western Kentucky Correctional Complex. |
| WEST | This property appears to be used primarily for agriculture, with some forested areas located throughout. |



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Refer to Figure 2.

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

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

| | |
|--------------|--|
| NORTH | No evidence of past uses observed that differ from the current use |
| EAST | No evidence of past uses observed that differ from the current use |
| SOUTH | No evidence of past uses observed that differ from the current use |
| WEST | No evidence of past uses observed that differ from the current use |

5.8.3 Pits, Ponds or Lagoons on Adjoining Properties

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

| | |
|--------------|---|
| NORTH | One sinkhole was observed. This property also contains the Fredonia Valley Quarry. |
| EAST | Several large sinkholes were observed; several documented cave entrances also exist on this property. |
| SOUTH | None observed |
| WEST | One pond was observed directly abutting the Property and adjoining parcels |

5.9 OBSERVED PHYSICAL SETTING

| | |
|---|--|
| Topography of the Property and Surrounding Area: | The Property and surrounding areas were observed with gentle rolling hills and depressions associated with sinkholes and karst topography. |
|---|--|



Interviews
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6.0 INTERVIEWS

Stantec provided Sean Pattee of RWE Solar Development, LLC with an interview questionnaire to distribute to the Property landowners. Completed landowner questionnaires were not returned to Stantec. Stantec was not provided with landowner contact information.



Evaluation
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7.0 EVALUATION

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

7.1 FINDINGS AND OPINIONS

Reviews of existing data, and a property inspection was evaluated to determine if RECs are present in connection with the Property. Based on this information, Stantec made the following findings and developed the following opinions.

- The Property's current and historical use includes agricultural row crop farming since 1936.

A wide variety of pesticides were applied on agricultural land, especially arsenic-based pesticides until the late 1960s. Other pesticides of concern are lead-based compounds, dichlorodiphenyltrichloroethane (DDT) and aldrin/dieldrin. Lead and arsenic are highly persistent in the environment and will remain in the environment indefinitely. Based on the history of agricultural use on-site, there is a potential that historic pesticide applications may have impacted the Property. Stantec did not find evidence of chemical mixing areas or crop-dusting airstrips or maintenance areas on the Property. Notwithstanding, the shallow soils may still contain some pesticide residue and metals impacts. The historical and current agricultural use of the Property is not considered to be a REC based on the continued use for agriculture and the additional intended use as a solar generation facility; however, this is considered a BER.

- One sinkhole on Parcel 39-6 was observed being used as a dumping site for household waste including metal sheeting, small aluminum soda cans, oil containers (<5 gallons), antifreeze containers, and aerosols.

No stressed vegetation, leaking, or staining were observed in association with the household waste in the sinkhole. Based on the topographic location of the sinkhole relative to the Property and the lack of stressed vegetation, leaking or staining, the sinkhole dumping site is considered to be *de minimis*.

- One 5-gallon plastic oil container located in the Tobacco Barn on Parcel 38-20 was observed half-full of engine oil.

The oil container did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the container does not represent a REC.

- Several approximately 5-gallon gasoline containers were observed inside and outside the shed on Parcel 38-20.

The gasoline containers were observed in good condition and did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the gasoline containers do not represent RECs.

- Approximately four 1000-gallon ASTs and five 250-gallon liquid propane ASTs were observed throughout the Property. Two of the 1000-gallon ASTs were observed adjacent to the warehouse building on Parcel 49-8 and are presumed to contain gasoline. Two of the 1000-gallon ASTs were



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observed empty with unknown former contents. Four of the liquid propane ASTs were associated with the residences and warehouse on Parcel 49-8 and were observed in good condition. One liquid propane AST was observed in a dumping site on Parcel 49-8 and is presumed to be empty.

The ASTs did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the ASTs do not represent RECs.

- Approximately six empty 55-gallon drums were observed throughout the Property with unknown former contents.

The drums did not exhibit evidence of a release including staining or stressed vegetation. Therefore, the drums do not represent RECs.

- The previous Phase I ESA for the Property identified one suspected REC for the Property associated with a sinkhole containing household appliances and a partially buried metal cavity of unknown contents and protruding pipe on Parcel 38-14 (Smith Management Group [SMG] 2018). Stantec visited the area previously considered a REC and observed the sinkhole to contain 3 ovens, 8-10 rolls of wire fencing, and various household debris. Stantec did not observe the metal tank or protruding pipe described in the previous Phase I ESA.

Based on Stantec’s visit to the area previously considered a REC and determination that the metal cavity and protruding pipe no longer exist, the sinkhole no longer represents a REC.

7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-13 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 Environmental Professional 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 |
| Weather-Related Restrictions to Site Reconnaissance: | None |
| Facility Access Restrictions to Site Reconnaissance: | Heavy vegetation limited visual observation of some areas of the Property. Interior areas including the residences, the warehouse, and two barns on the Property were unable to be accessed. This data failure represents a data gap but is not considered to impact the EP’s ability to identify RECs at the Property. |
| Other Site Reconnaissance Restrictions: | None |
| Data Gaps from Environmental Records Review: | Stantec was not able to obtain fire records information for the Property. This data failure represents a data gap but is not |



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| Gap | Discussion |
|--|--|
| | considered to impact the EP's ability to identify RECs at the Property. |
| Data Gaps from Historical Records Review: | Stantec was not able to obtain historical records that document the Property history in 5-year intervals. Historical records for the Property were available back to 1928 and do not appear to pre-date the development of the Property for residential and agricultural use. Stantec was unable to acquire a City Directory report. These data failures represent data gaps but are not considered to impact the assessor's ability to identify RECs. |
| Data Gaps from Interviews: | As of the time of completion of this report, Stantec was unable to interview the landowner or landowner's representative. A completed ASTM User Questionnaire was not received. This is not considered a significant data gap due to the current and historical land use of the site as rural residential/agricultural land. |
| Other Data Gaps: | None |

7.3 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the property consisting of Lyon and Caldwell Counties, Kentucky Parcels 38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6, and 49-8, or the "Property". Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property.



ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Non-Scope Considerations
Report Date

8.0 NON-SCOPE CONSIDERATIONS

The scope of work completed was limited solely to those items in the ASTM E1527-13 standard. No ASTM E1527-13 non-scope services were performed as part of this Phase I ESA.



9.0 REFERENCES

- ASTM International (ASTM), 2015, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-15.
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- GeoSearch. Aerial Photographs, Job Number 266056. November 13, 2018.
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- United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) National Agricultural Imagery Program (NAIP). 2018. Lyon County, KY.
- USDA NRCS. Web Soil Survey. 2019. Available: <http://websoilsurvey.nrcs.usda.gov/>. Accessed 06/29/2020.
- United States Geological Survey (USGS). 2017. Geologic Maps of the US States. The State Geologic Map Compilation (SGMC) Geodatabase of the Conterminous United States. Available via: <https://mrdata.usgs.gov/geology/state/>. Accessed 06/29/2020.
- USGS. 2019a. Crider, KY Quadrangle, 7.5 Minute Topographic Map, 1: 24,000.
- USGS. 2019b. Eddyville, KY Quadrangle, 7.5 Minute Topographic Map, 1: 24,000.
- USGS. 2019c. Fredonia, KY Quadrangle, 7.5 Minute Topographic Map, 1: 24,000.
- USGS. 2019d. Princeton West, KY Quadrangle, 7.5 Minute Topographic Map, 1: 24,000.
- USGS. 2017e. Geologic Maps of the US States. The State Geologic Map Compilation (SGMC) Geodatabase of the Conterminous United States. Available via: <https://mrdata.usgs.gov/geology/state/>. Accessed 06/29/2020.



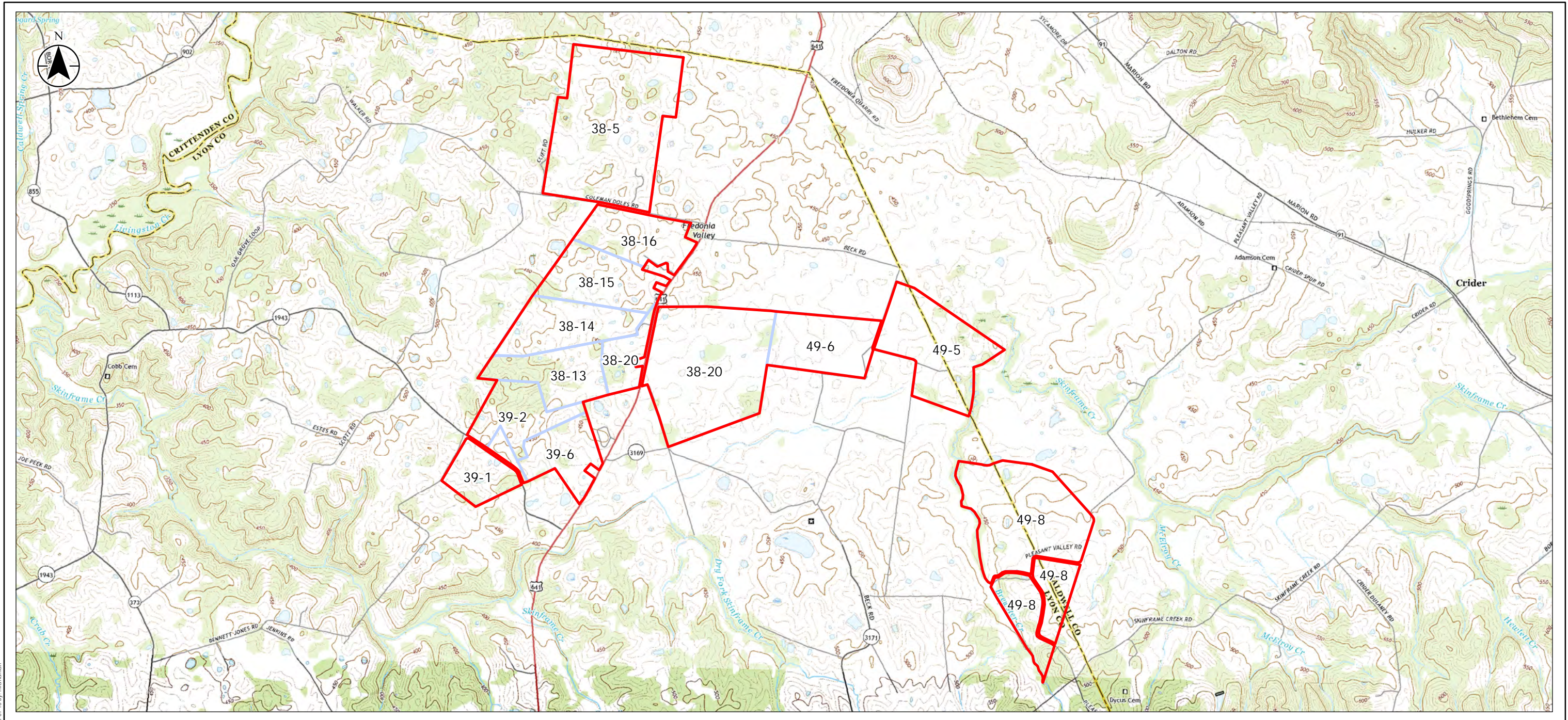
ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT



Project No.: 172658236

FIGURES





Legend
 Property Boundary
 Property Parcels

0 3,000 6,000 Feet
 1:36,000 (At original document size of 11x17)



Project Location: Near Eddyville, Lyon and Caldwell Counties, KY
 Prepared by NV on 07-10-2020
 TR by SK on 07-10-2020
 TR by JA on 07-10-2020

Client/Project: RWE Solar Development, LLC
 Ashwood Solar Site

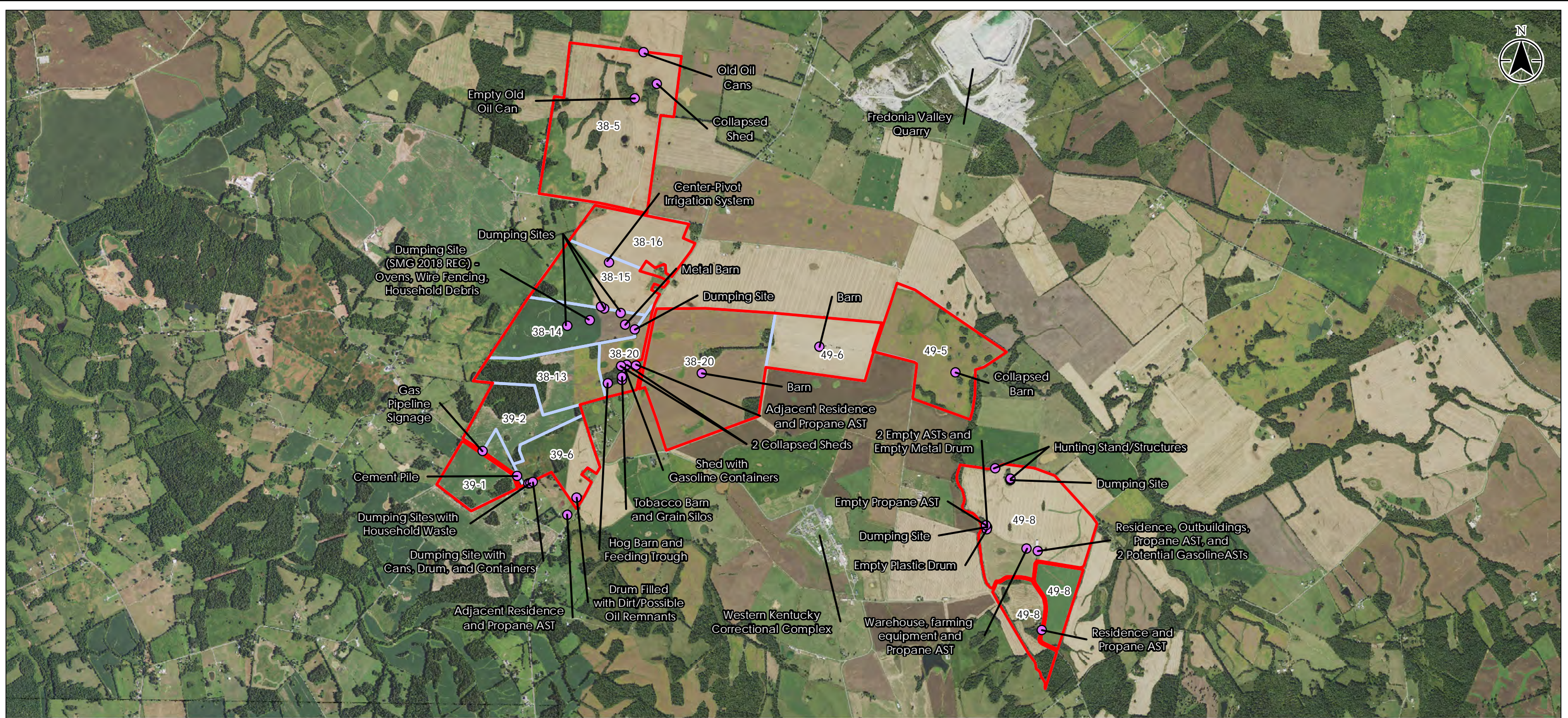
Figure No.: 1

Title: Property Location Map

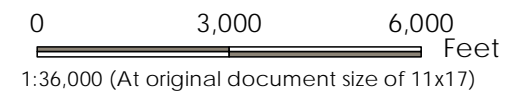
Notes
 1. Coordinate System: NAD 1983 StatePlane Kentucky South FIPS 1602 Feet
 2. 2019 USGS Topographic Quadrangles, Crider, Eddyville, Fredonia, and Princeton West, KY 1:24,000
 3. ESRI World Street Map

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

C:\Users\mahanian\Desktop\Ashwood KY\Figure 1 Location Map Ashwood.mxd Revised: 2020-07-10 By: mahanian



- Legend**
- Property Boundary
 - Property Parcels
 - Features



Project Location: Near Eddyville, Lyon and Caldwell Counties, KY
 Prepared by NV on 11-04-2020
 TR by SK on 11-04-2020
 IR by JA on 11-04-2020

Client/Project: RWE Solar Development, LLC
 Ashwood Solar Site

Figure No.: 2

Title: Property Vicinity Map

Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky South FIPS 1602 Feet
2. Base imagery produced from USDA NAIP 2018
3. Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation
4. ESRI World Street Map

C:\Users\rvahanian\Desktop\Ashwood KY\Figure 2 Vicinity Map Ashwood.mxd Revised: 2020-11-04 By: rvahanian

APPENDICES




ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Appendix A Photographs of the Property and Vicinity
Report Date

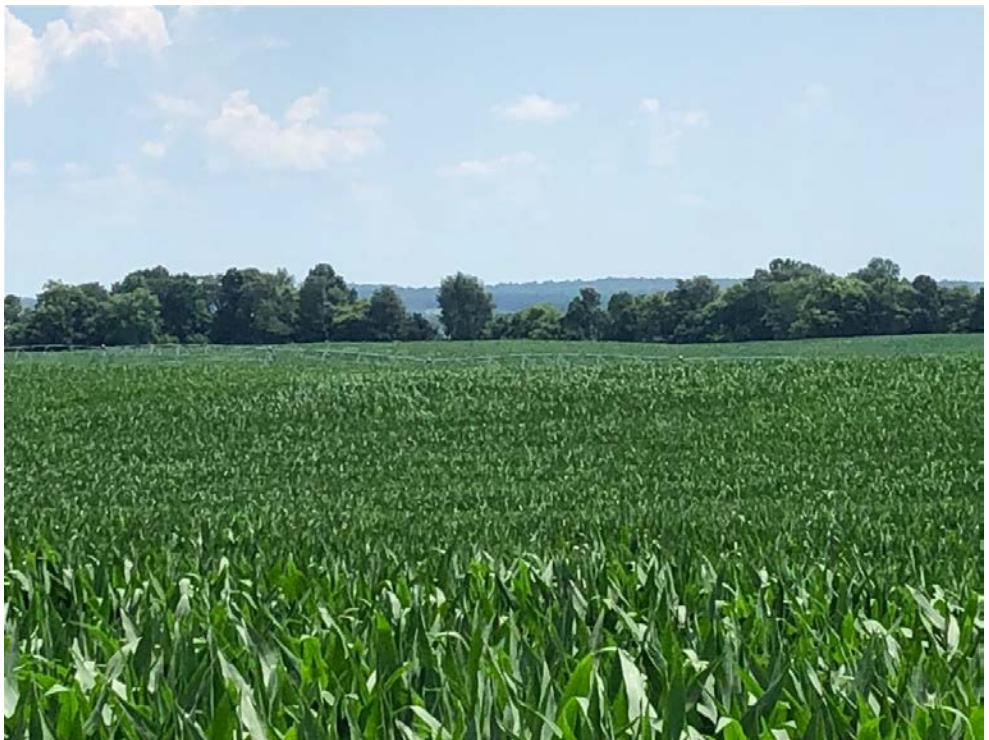

Appendix A Photographs of the Property and Vicinity







| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

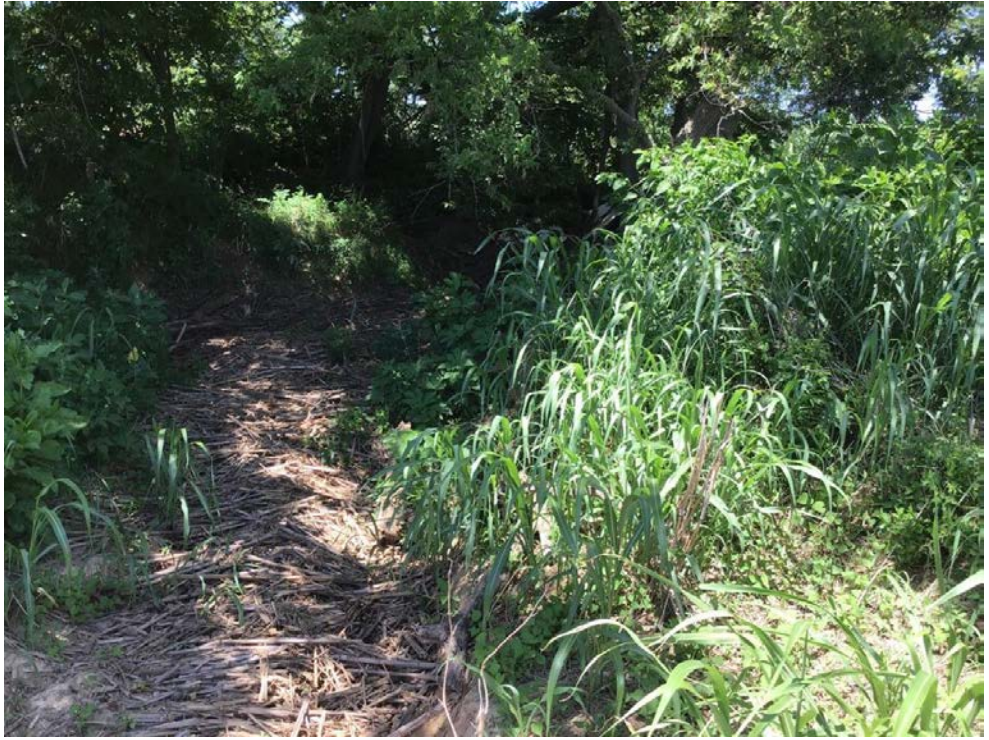

| | |
|--|---|
| Photograph ID: 1 |  |
| Photo Location: Northeast portion of Parcel 38-5 | |
| Survey Date: 6/16/2020 | |
| Comments: Collapsed Shed | |

| | |
|--|--|
| Photograph ID: 2 |  |
| Photo Location: Northeast portion of Parcel 38-5 | |
| Survey Date: 6/16/2020 | |
| Comments: Dumping Site containing an empty oil can | |

| | | | |
|--|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 3 |  | | |
| Photo Location: Northwestern portion of Parcel 38-16 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Center-pivot irrigation system overview | | | |
| Photograph ID: 4 |  | | |
| Photo Location: Northwestern portion of Parcel 38-16 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Cornfield overview | | | |

| | | | |
|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 5 |  | | |
| Photo Location: Central portion of Parcel 38-14 | | | |
| Survey Date: 6/16/2020 | | | |
| Comments: Dumping Site containing wire and pallets | | | |
| Photograph ID: 6 |  | | |
| Photo Location: Northeast portion of Parcel 38-14 | | | |
| Survey Date: 6/15/2020 | | | |
| Comments: Dumping Site containing a demolished building | | | |

| | | | |
|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 7 |  | | |
| Photo Location: Northeast portion of Parcel 38-14 | | | |
| Survey Date: 6/15/2020 | | | |
| Comments: Dumping Site containing small amounts of trash and black pipes in sink hole | | | |
| Photograph ID: 8 |  | | |
| Photo Location: Northeast portion of Parcel 38-14 | | | |
| Survey Date: 6/15/2020 | | | |
| Comments: Dumping Site containing pipes | | | |

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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 9 |  | | |
| Photo Location: Central portion of Parcel 38-14 | | | |
| Survey Date: 6/16/2020 | | | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | | | |
| Photograph ID: 10 |  | | |
| Photo Location: Central portion of Parcel 38-14 | | | |
| Survey Date: 10/28/2020 | | | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | | | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|---|---|
| Photograph ID: 11 |  |
| Photo Location: Central portion of Parcel 38-14 | |
| Survey Date: 10/28/2020 | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | |



| | |
|---|--|
| Photograph ID: 12 |  |
| Photo Location: Central portion of Parcel 38-14 | |
| Survey Date: 10/28/2020 | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | |

| | | | |
|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 13 |  | | |
| Photo Location: Central portion of Parcel 38-14 | | | |
| Survey Date: 10/28/2020 | | | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | | | |
| Photograph ID: 14 |  | | |
| Photo Location: Central portion of Parcel 38-14 | | | |
| Survey Date: 10/28/2020 | | | |
| Comments: Dumping Site containing household debris (Ovens, wire fencing) (considered REC in original Phase I ESA, no longer considered a REC) | | | |


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|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| Photograph ID: 15 |  |
| Photo Location: Eastern portion of Parcel 38-14 | |
| Survey Date: 6/19/2020 | |
| Comments: Dumping Site containing miscellaneous household debris and a tin metal roof | |



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|---|--|
| Photograph ID: 16 |  |
| Photo Location: Eastern portion of Parcel 38-14 | |
| Survey Date: 6/19/2020 | |
| Comments: Metal Barn, unable to be accessed | |

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|--|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 17 |  | | |
| Photo Location: Southwest portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Old hog barn, exterior | | | |
| Photograph ID: 18 |  | | |
| Photo Location: Southwest portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Miscellaneous debris within old hog barn | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| <p>Photograph ID: 19</p> |  |
| <p>Photo Location: Southwest portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Old hog barn, exterior</p> | |

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|---|--|
| <p>Photograph ID: 20</p> |  |
| <p>Photo Location: Southwest portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Old hog barn, exterior</p> | |

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|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 21 |  | | |
| Photo Location: Southwest portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Old hog barn and adjacent feeding trough | | | |
| Photograph ID: 22 |  | | |
| Photo Location: Southwest portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Feeding trough adjacent old hog barn, containing ceramic litter | | | |

| | | | |
|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

Photograph ID: 23

Photo Location:
Southwest portion of Parcel 38-20

Survey Date:
6/18/2020

Comments:
Feeding trough adjacent old hog barn, containing ceramic litter





Photograph ID: 24

Photo Location:
Southern portion of Parcel 38-20


Survey Date:
6/18/2020


Comments:
Tobacco Barn exterior




| | | | |
|--|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 25 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Tobacco barn exterior | | | |
| Photograph ID: 26 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Tobacco barn exterior | | | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |



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|--|---|
| Photograph ID: 27 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tobacco barn exterior | |

| | |
|--|--|
| Photograph ID: 28 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tobacco barn interior | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 29 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tires and miscellaneous debris in tobacco barn | |

| | |
|--|--|
| Photograph ID: 30 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tires and miscellaneous debris in tobacco barn | |

| | | | |
|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 31 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Half-full 5-gallon oil container, no leaking or staining observed | | | |
| Photograph ID: 32 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Boat interior in tobacco barn | | | |

| | | | |
|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 33 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Miscellaneous debris in tobacco barn | | | |
| Photograph ID: 34 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: 5-gallon engine oil container in tobacco barn, empty, no leaking or staining observed | | | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| Photograph ID: 35 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Small quantity containers of unknown contents in tobacco barn | |


| | |
|--|--|
| Photograph ID: 36 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Boat in tobacco barn interior | |

| | | | |
|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 37 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Old farming equipment | |

| | |
|--|--|
| Photograph ID: 38 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Old grain auger adjacent tobacco barn | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 39 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Grain silos (four) adjacent tobacco barn | |

| | |
|--|--|
| Photograph ID: 40 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Grain silos adjacent tobacco barn | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 41 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Grain silos exterior | |

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|--|--|
| Photograph ID: 42 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Grain silos exterior | |

| | | | |
|--|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 43 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Grain silo interior | | | |
| Photograph ID: 44 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Grain silo interior | | | |


| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |



| | |
|--|---|
| Photograph ID: 45 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Wood debris pile adjacent grain silos | |

| | |
|--|--|
| Photograph ID: 46 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tire debris pile adjacent grain silos | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 47 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Conveyor adjacent grain silos | |

| | |
|--|--|
| Photograph ID: 48 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Grain dryer adjacent grain silos | |

| | | | |
|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 49 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Non-functioning electrical box and pole | | | |
| Photograph ID: 50 |  | | |
| Photo Location: Southern portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Old mower adjacent grain silos | | | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| Photograph ID: 51 |  |
| Photo Location: Southern portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tire debris pile adjacent grain silos | |

| | |
|---|--|
| Photograph ID: 52 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Old shed exterior | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

Photograph ID: 53

Photo Location:
Central portion of Parcel 38-20

Survey Date:
6/18/2020

Comments:
Old shed exterior



Photograph ID: 54

Photo Location:
Central portion of Parcel 38-20

Survey Date:
6/18/2020


Comments:
Old shed currently used for storage



| | |
|--|--|
| Client: RWE Solar Development, LLC Project: 172658236 | |
| Site Name: Ashwood Solar Site Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 55 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Old shed interior | |
| Photograph ID: 56 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Old shed interior and 5-gallon gasoline container, observed in good condition with no leaking or staining observed | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |



| | |
|---|---|
| Photograph ID: 57 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Two 5-gallon gasoline containers adjacent old shed, observed in good condition with no leaking or staining observed | |

| | |
|---|--|
| Photograph ID: 58 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Two 5-gallon gasoline containers adjacent old shed, observed in good condition with no leaking or staining observed | |


| | | | |
|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

| | |
|--|---|
| <p>Photograph ID: 59</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Miscellaneous debris adjacent old shed</p> | |

| | |
|---|--|
| <p>Photograph ID: 60</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Old fence surrounding old shed</p> | |

| | | | |
|---|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 61 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Collapsed shed (#1) exterior | | | |
| Photograph ID: 62 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Collapsed shed (#1) exterior | | | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |


| | |
|---|---|
| <p>Photograph ID: 63</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Empty, rusted 55-gallon container in collapsed shed (#1); unknown former contents, possibly used as burn barrel</p> | |

| | |
|---|--|
| <p>Photograph ID: 64</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Miscellaneous debris adjacent collapsed shed (#1)</p> | |

| | | | |
|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| <p>Photograph ID: 65</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Empty, rusted 55-gallon container adjacent collapsed shed (#1); unknown former contents, possibly used as burn barrel</p> | |

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|---|--|
| <p>Photograph ID: 66</p> |  |
| <p>Photo Location: Central portion of Parcel 38-20</p> | |
| <p>Survey Date: 6/18/2020</p> | |
| <p>Comments: Collapsed shed (#2)</p> | |

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|--|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 67 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Collapsed shed (#2) | | | |
| Photograph ID: 68 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Collapsed shed (#2), metal and wood debris piles | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |


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|---|---|
| Photograph ID: 69 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Mower and cattle feeders in collapsed shed (#2) | |



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|---|--|
| Photograph ID: 70 |  |
| Photo Location: Central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Tree stand adjacent collapsed shed (#2) | |

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|--|--|--|--|
| Client: RWE Solar Development, LLC | | Project: 172658236 | |
| Site Name: Ashwood Solar Site | | Site Location: Lyon & Caldwell Counties, KY | |
| Photograph ID: 71 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Barn exterior, interior observed to be empty | | | |
| Photograph ID: 72 |  | | |
| Photo Location: Central portion of Parcel 38-20 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Wheat field overview | | | |

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|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| Photograph ID: 73 |  |
| Photo Location: Adjacent to central portion of Parcel 38-20 | |
| Survey Date: 6/18/2020 | |
| Comments: Adjacent residence and liquid propane AST | |

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|---|--|
| Photograph ID: 74 |  |
| Photo Location: Southern boundary of Parcel 39-2 | |
| Survey Date: 6/18/2020 | |
| Comments: Natural gas pipeline running along the southern boundary of Parcel 39-2 | |

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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 75 |  | | |
| Photo Location: Southwest boundary of Parcel 39-6 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Powerline ROW adjacent cement pile | | | |
| Photograph ID: 76 |  | | |
| Photo Location: Southwest boundary of Parcel 39-6 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Cement pile | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| <p>Photograph ID: 77</p> |  |
| <p>Photo Location: Southwest portion of Parcel 39-6</p> | |
| <p>Survey Date: 6/19/2020</p> | |
| <p>Comments: Dumping Site containing cinder blocks overlain by sand bags</p> | |



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|---|--|
| <p>Photograph ID: 78</p> |  |
| <p>Photo Location: Southwest portion of Parcel 39-6</p> | |
| <p>Survey Date: 6/19/2020</p> | |
| <p>Comments: Dumping Site containing cinder blocks overlain by sand bags</p> | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |


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|---|---|
| Photograph ID: 79 |  |
| Photo Location: Southwest portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Dumping Site containing tires, empty plastic tubs, and metal sheeting | |

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|---|--|
| Photograph ID: 80 |  |
| Photo Location: Southwest portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Dumping Site containing tires, empty plastic tubs, and metal sheeting | |

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|---|--|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 81 |  | | |
| Photo Location: Southwest portion of Parcel 39-6 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing tires, empty plastic tubs, and metal sheeting | | | |
| Photograph ID: 82 |  | | |
| Photo Location: Southwest portion of Parcel 39-6 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing tires, empty plastic tubs, and metal sheeting | | | |

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|--|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 83 |  | | |
| Photo Location: Southwest portion of Parcel 39-6 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing metal sheeting, many small cans, oil containers (<5 gal), antifreeze containers and aerosols | | | |
| Photograph ID: 84 |  | | |
| Photo Location: Southwest portion of Parcel 39-6 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing metal sheeting, many small cans, oil containers (<5 gal), antifreeze containers and aerosols | | | |

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|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|--|---|
| Photograph ID: 85 |  |
| Photo Location: Southwest portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Dumping Site containing metal sheeting, many small cans, oil containers (<5 gal), antifreeze containers and aerosols; one empty 55-gallon drum of unknown former contents observed | |

| | |
|--|--|
| Photograph ID: 86 |  |
| Photo Location: Southwest portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Dumping Site containing metal sheeting, many small cans, oil containers (<5 gal), antifreeze containers and aerosols | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |



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|--|---|
| Photograph ID: 87 |  |
| Photo Location: Southern portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: 55-gallon drum filled with dirt, possible oil remnants. Drum is rusted, but no leaking observed. | |



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|--|--|
| Photograph ID: 88 |  |
| Photo Location: Southern portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: 55-gallon drum filled with dirt, possible oil remnants. Drum is rusted, but no leaking observed. | |



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|-------------------|-----------------------------------|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|--|---|
| Photograph ID: 89 |  |
| Photo Location: Adjacent southern portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Adjacent residence and liquid propane AST | |

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|--|--|
| Photograph ID: 90 |  |
| Photo Location: Southwest portion of Parcel 39-6 | |
| Survey Date: 6/19/2020 | |
| Comments: Powerline ROW | |


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|--|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 91 |  | | |
| Photo Location: Southwest portion of Parcel 39-6 | | | |
| Survey Date: 6/18/2020 | | | |
| Comments: Powerline ROW and cornfield overview | | | |
| Photograph ID: 92 |  | | |
| Photo Location: Central portion of Parcel 49-5 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Collapsed Barn | | | |



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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 93 |  | | |
| Photo Location: Central portion of Parcel 49-5 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Collapsed Barn | | | |
| Photograph ID: 94 |  | | |
| Photo Location: Northwestern portion of Parcel 49-5 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Soybean field overview | | | |

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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 95 |  | | |
| Photo Location: Northwestern portion of Parcel 49-5 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Powerline ROW | | | |
| Photograph ID: 96 |  | | |
| Photo Location: Northwestern portion of Parcel 49-8 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Two approximately 1000-gallon, empty ASTs of unknown former contents, no leaking or staining observed | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|--|---|
| <p>Photograph ID: 97</p> |  |
| <p>Photo Location: Northwestern portion of Parcel 49-8</p> | |
| <p>Survey Date: 6/19/2020</p> | |
| <p>Comments: One 55-gallon empty, metal drum of unknown former contents with no leaking or staining observed, adjacent two ASTs (noted in Photo 91)</p> | |

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|---|--|
| <p>Photograph ID: 98</p> |  |
| <p>Photo Location: Northwestern portion of Parcel 49-8</p> | |
| <p>Survey Date: 6/19/2020</p> | |
| <p>Comments: Dumping Site containing tires</p> | |

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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 99 |  | | |
| Photo Location: Northwestern portion of Parcel 49-8 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing plastic and metal waste including an empty plastic 55-gallon drum of unknown former contents with no leaking or staining observed | | | |
| Photograph ID: 100 |  | | |
| Photo Location: Northwestern portion of Parcel 49-8 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Dumping Site containing plastic and metal waste including an empty plastic 55-gallon drum of unknown former contents with no leaking or staining observed | | | |



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|---|--|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 101 |  | | |
| Photo Location: Northwestern portion of Parcel 49-8 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Empty liquid propane AST with no leaking or staining observed | | | |
| Photograph ID: 102 |  | | |
| Photo Location: Northern portion of Parcel 49-8 | | | |
| Survey Date: 6/19/2020 | | | |
| Comments: Metal hunting/storage structure | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

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|---|---|
| Photograph ID: 103 |  |
| Photo Location: Northern portion of Parcel 49-8 | |
| Survey Date: 6/20/2020 | |
| Comments: Dumping Site containing tires | |

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|---|--|
| Photograph ID: 104 |  |
| Photo Location: Northern portion of Parcel 49-8 | |
| Survey Date: 6/20/2020 | |
| Comments: Hunting/Deer stand | |

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|---|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 105 |  | | |
| Photo Location: Central portion of Parcel 49-8 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Warehouse buildings, farming equipment | | | |
| Photograph ID: 106 |  | | |
| Photo Location: Central portion of Parcel 49-8 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Warehouse buildings, farming equipment, and liquid propane AST observed in good condition | | | |

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|--|--|-----------------------|---|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |
| Photograph ID: 107 |  | | |
| Photo Location: Central portion of Parcel 49-8 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Residence and liquid propane AST | | | |
| Photograph ID: 108 |  | | |
| Photo Location: Central portion of Parcel 49-8 | | | |
| Survey Date: 6/20/2020 | | | |
| Comments: Warehouse buildings, two possible gasoline ASTS and one liquid propane AST, observed in good condition | | | |

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|-------------------|----------------------------|-----------------------|------------------------------|
| Client: | RWE Solar Development, LLC | Project: | 172658236 |
| Site Name: | Ashwood Solar Site | Site Location: | Lyon & Caldwell Counties, KY |

Photograph ID: 109

Photo Location:
Southern portion of Parcel 49-8

Survey Date:
6/20/2020

Comments:
Residence and liquid propane AST



ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Appendix B Stantec Resumes
Report Date

Appendix B STANTEC RESUMES



David Rautmann PE

Principal

38 years of experience · Mequon, Wisconsin

Mr. Rautmann's knowledge and experience in engineering and project management spans 35 years. Presently, he serves as Sector Lead for Stantec's Environmental Services group in the Upper Midwest. In this role, he is responsible for top line growth and delivery within Stantec's core business lines of; Mining, Oil & Gas, Power, Transportation, Water, Community Development and Buildings. However, he also has shared responsibilities within Stantec's Balanced Leadership structure for; Health & Safety, quality assurance/quality control, technical innovation, and financial management. In addition Mr. Rautmann is responsible for management of multi-disciplinary project teams. He is a skilled client manager who communicates with clients to maintain superior client satisfaction. This includes meeting with clients, ensuring quality service and client satisfaction, managing staff and overseeing technical training and providing leadership for business development and planning initiatives.

EDUCATION

Bachelor of Science, Nuclear Engineering, University of Wisconsin, Madison, Wisconsin, 1978

Master of Science, Nuclear Engineering, University of Wisconsin, Madison, Wisconsin, 1979

REGISTRATIONS

Professional Engineer #22778-6, State of Wisconsin, 1984

PROJECT EXPERIENCE

BROWNFIELD REMEDIATION AND REDEVELOPMENT

Various Deconstruction and Redevelopment Projects | Various Locations, WI, MN, MI and IL

Stantec has as strong reputation for brownfield redevelopment projects. Mr. Rautmann's operations in the Midwest serve as a center of excellence for this work within Stantec. Mr. Rautmann has experience on over 1,000 environmental remediation sites in the upper Midwest with many of these meeting the broader definition of a brownfield redevelopment; that being a former, typically blighted, industrial, commercial or retail site with confirmed or suspected soil or groundwater contamination. The site is then redeveloped by remediating the contaminants; demolishing, deconstructing or restoring the former buildings; and repurposing the site for a new higher use thus restoring the tax basis of the property. This is often accomplished through a public and private partnership using federal and state grant/loan money to supplement private financing.

Significant projects that Mr. Rautmann has been involved with include:

Former Kingsbury Brewery - repurposed to green space.

Former Verifine Dairy - repurposed to affordable housing and recreational.

Former Garton Toy - repurposed to residential housing.

Former New Page Mill - repurposed to multi-tenant industrial.

Former Glatfelter Mill Redevelopment Area - repurposed to multi-tenant office and commercial space. Winner of the 2012 National Brownfields Award for Economic Impact

Wausau Riverfront Revitalization Area - repurposed from former heavy industrial use to green space and commercial and light industrial. Winner of the 2013 National Brownfields Award for Economic Impact.

Former Fergus Falls Incinerator - being repurposed f

OIL & GAS

Various Gathering Lines Projects | Hess Petroleum | North Dakota

Mr. Rautmann serves as Client Manager for all of the Hess Petroleum accounts in North Dakota. Project work includes engineering and process design for gathering lines and supporting facilities as well as environmental support for siting studies, stormwater monitoring and 3rd party environmental monitoring. Mr. Rautmann is responsible for the overall client satisfaction as well as quality assurance and general project oversight. This account has grown significantly over the past several years due to Mr. Rautmann's management and the quality of work produced by Stantec in the Oil and Gas practice.

Lewiston Pump Station Foundation Repair | Enbridge | Lewiston, Michigan

Stantec assisted Enbridge on evaluation and repair of pump foundation repairs due to vibration induced cracks. Stantec assisted in structural evaluation of the foundations, design of foundation repairs, bidding of construction work, oversight of contractors (Stantec's inspectors are certified by Enbridge), startup testing and final cost and project reconciliation. Mr. Rautmann performed as Project Manager for the engineering work completed for Enbridge and brought the project in on time and budget despite having to manage around several planned outages.

TRAFFIC IMPACT ASSESSMENTS

Transcanada Northern Border Pipeline - Princeton Lateral Traffic Impact Assessment | Multiple Cities, Illinois | Principal

As part of the permitting and bonding requirements for the township and county, Stantec performed a pre-construction roadway impact assessment to document the roadway, culvert and bridge conditions on the proposed construction haul routes for a major oil pipeline expansion project in Illinois. Stantec also met with the county and township engineers to negotiate repair estimates for establishing financial security. After construction was complete, Stantec performed a post construction assessment to quantify the impacts claimed by the county and helped negotiate a final settlement of impact costs associated with the project construction. The final post construction repair costs came in slightly under the pre-construction repair estimates. Stantec also provided onsite, full time environmental monitoring to ensure permit compliance during construction. Mr. Rautmann served as Project Manager for the traffic impact study and closely coordinated services with our environmental staff.

POWER TRANSMISSION & DISTRIBUTION

Northern States Power, Superintendent of Safety Analysis

During his nine years at Northern States Power, Mr. Rautmann was part of the Nuclear Analysis group whose development methodology to help NSP became one of the first utilities to be approved by the Nuclear Regulatory Commission to perform their own core and safety analysis for licensing. These approved methodologies were subsequently used in managing core re-fueling, evaluating equipment modifications, implementing the plant stimulator program and planning emergency action exercises.

At Stantec, Mr. Rautmann maintains a strong connection to the Power industry with involvement on transmission and distribution; renewable energy (wind, solar and hydroelectric) and generation projects. Mr. Rautmann fills a key role in marketing and providing client oversight for these clients.

COMMUNITY DEVELOPMENT

Former Landfill Remediation | Town of Grafton | Grafton, Wisconsin

Stantec has had a strong relationship with the Town of Grafton for many years, serving as the Town Engineer and completing a wide variety of environmental projects on behalf of the Town. A major project was the investigation, evaluation of remedial alternatives and implementation of the approved remedial action plan. Contaminants from the former landfill were first identified in residential drinking water wells downgradient of the landfill. Stantec was immediately involved negotiating a solution with the USEPA and WDNR. A municipal water supply was extended to the affected residents. Subsequently to the immediate actions to protect health and welfare, Stantec developed and implemented a soil and groundwater investigation, sampled drinking water wells across the township, negotiated on behalf of the Town with the WDNR and the other responsible parties and helped develop the final remedial action plan. Stantec is currently retained to implement the plan. Mr. Rautmann served as Project Manager for most of the project and still serves as Client Manager for the Town. Mr. Rautmann's negotiating skills throughout the project with both the regulatory agencies and other responsible parties helped the Town save money while still protecting the health and safety of the Town's residents.

The Bull at Pinehurst Farms Golf Course - Site Permitting and Engineering | Wisconsin | Project Manager

Stantec was retained to provide all of the engineering and permitting support needed for development of a world class golf course and residential development in Wisconsin. As Project Manager it was Mr. Rautmann's job to provide all of the necessary support for the golf course designer, Nicklaus Design (this was the first and is the only Jack Nicklaus Signature course in Wisconsin). Permitting and engineering activities included, cleanup of a former farm dump and underground storage tank, asbestos removal from a former dairy building, wetland delineation and mitigation, design of the irrigation well and ponds, stormwater management plans, erosion control plans, design of four bridges, streambank stabilization and floodplain hydraulic analyses. Mr. Rautmann provided weekly on-site design support and inspection services throughout the construction of the course and continues to provide the owner with engineering support for small maintenance and repairs.

Stantec promotes a strong connection to the local community and hence focuses on providing municipal and local development support services. Mr. Rautmann has been involved in hundreds of Community Development projects in the upper Midwest which span the spectrum of engineering to environmental support. Many of these projects have focused on remediation, water resources and recreational development.

WATER

Legend Lake Dam Repair and Lake Restoration | Keshena, Wisconsin | Project Manager

Stantec was originally retained by the Legend Lake Protect and Rehabilitation District to respond to WDNR concerns about the condition of Dams #1 and #3 which form Legend Lake. Mr. Rautmann's role was project management and technical support. Stantec engineers inspected the dams, negotiated solutions with the WDNR and Menomonee Tribes, prepared plans and construction specifications and documented construction. Following this, Stantec was further retained to perform an Aquatic Plant Management Plan which again was approved by the WDNR and Tribe. The LLPRD has since hired in-house staff and continues to utilize portions of the original plan to implement their annual chemical treatment of Eurasian Milfoil. Mr. Rautmann originally served as Project Manager and later as Client Manager. Stantec ultimately withdrew from the project because of conflict of interest concerns with both the LLPRD and Tribe as clients.

Stantec is a leader in water resource management in the upper Midwest with a strong focus on lake and stream restoration as well as coastal resources. This involves not only a strong technical basis but also obtaining Federal, State and local funding to support these projects. Mr. Rautmann has been involved in numerous water resource projects in the upper Midwest providing management, permitting and grant funding expertise.

Niky Vahanian

Environmental Scientist

Niky is an Environmental Scientist with over 1 year of professional experience conducting wetland and stream delineations in accordance with Sections 401 and 404 of the Clean Water Act, stream assessments, rare species and wildlife investigations, mitigation bank monitoring assessments, vegetation surveys, and other natural resource surveys. Niky has assisted in report writing of Phase I Environmental Site Assessment Reports, Critical Issues Analyses, Jurisdictional Determinations, Mitigation Monitoring Reports, and Benthic Macroinvertebrate reports and has also assisted with Clean Water Act Section 401/404 permitting. She is proficient in ArcGIS for creating figures and performing geospatial analysis, as well as with Trimble Pathfinder, ArcGIS Online, and Collector for ArcGIS.

EDUCATION

Masters in Environmental Science, Indiana University, Bloomington, IN, 2018

Bachelors of Science in Biology, University of Iowa, Iowa City, IA, 2014

CERTIFICATIONS & TRAINING

36-hour Wetland Delineation and Regional Supplement training Swamp School, LLC, Pittsburgh, Pennsylvania, 2018

Basic and Advanced Terrasync & Pathfinder Office Trimble Certified Training Duncan-Parnell, Charlotte, North Carolina, 2019

PROJECT EXPERIENCE

ENVIRONMENTAL SITE ASSESSMENTS

Whitehorn Solar Project | Gretna, Virginia, United States | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for the long-term lease of the Whitehorn site in anticipation of development and construction of a solar photovoltaic generator. Her roles included background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

Broken Spoke Solar Site | Camilla, Georgia, United States | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for the long-term lease of the Broken Spoke site in anticipation of development and construction of a solar photovoltaic generator. Her roles included field site reconnaissance, background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

Otter Creek Solar Site | Chase City, Virginia, United States | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for the long-term lease of the Otter Creek site in anticipation of development and construction of a solar photovoltaic generator. Her roles included background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

Meherrin Solar Site | Skippers, Virginia, United States | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for the long-term lease of the Meherrin site in anticipation of development and construction of a solar photovoltaic generator. Her roles included background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

Seven Bridges Solar Collection Line | Chase City, Virginia, United States | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for the long-term lease of the Seven Bridges site in anticipation of development and construction of a solar photovoltaic generator. Her roles included background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

Lewisburg Pike Project | Franklin, TN | Environmental Scientist

Niky performed a Phase I Environmental Site Assessment for Ford Custom Classic Homes, LLC in anticipation of development and construction of a housing development. Her roles included field site reconnaissance, background data compilation, identification of features of environmental concern, report preparation, and figure preparation.

ENVIRONMENTAL SURVEYING

SR-33 Union County Environmental Boundary/Rapid SQT Surveys | Union County, Tennessee, United States | Environmental Scientist

Niky assisted with conducting environmental boundary and rapid SQT surveys for a TDOT highway expansion project on SR-33 in Union County, TN. Surveys consisted of identifying and delineating wetlands, streams, and wet weather conveyances within and adjacent to the project area, and completing relevant data forms for US Army Corps of Engineers, TDOT, and TDEC review. Niky also assisted with field and desktop components of the Rapid SQT stream functional assessments and created figures as part of the final client deliverables.

SR-8 Hamilton County Environmental Boundary Survey | Chattanooga, TN | Environmental Scientist

Niky assisted with conducting environmental boundary surveys for a TDOT highway improvement project on SR-8 in Hamilton County, TN. Surveys consisted of identifying and delineating wetlands, streams, and wet weather conveyances within and adjacent to the project area, and completing relevant data forms for US Army Corps of Engineers, TDOT, and TDEC review. Niky assisted with field and desktop components and created figures as part of the final client deliverables.

Ashwood Solar Project | Lyon and Caldwell Counties, KY | Environmental Scientist

Niky assisted with conducting environmental boundary surveys for a proposed solar project in Lyon and Caldwell Counties, KY. Surveys consisted of identifying and delineating wetlands, streams, sinkholes, cave features, and Phase I ESA areas of interest within and adjacent to the project area. Niky assisted by collecting GPS data associated with features and assisting with wetland delineations.

STUDIES AND EVALUATIONS

Macroinvertebrate Stream Survey | Franklin, Tennessee, United States | Environmental Scientist

Niky provided data compilation and analysis, report preparation and figure preparation for the City of Franklin's Macroinvertebrate Stream Survey, an ongoing project involving the assessment of 303(d) listed streams in Franklin, Tennessee in order to assess the current biological integrity of the selected streams to help the City of Franklin guide decisions related to their MS4 program and meet the requirements of their MS4 NPDES General Permit.

Wastewater Treatment Wetland Monitoring* | Thompsonville, Illinois, United States | Staff Scientist/GIS Analyst

Niky provided sample analysis and data reduction efforts for this project in Thompsonville, IL in Franklin, County. The project involved the design and monitoring of wastewater treatment wetlands intended to treat acid mine drainage from an adjacent mine. Niky assisted with wetland delineation, water quality sampling, lab result analysis, figure preparation, and report writing.

Environmental Desktop Review for Pipeline Exposure Locations | Kentucky, United States | Environmental Scientist

Niky performed environmental desktop reviews involving research and analysis of various resources including; the National Hydrography Dataset, National Wetland Inventory, local stormwater ordinances, levees and civil works projects, FEMA floodzones, threatened and endangered species, and cultural resources to facilitate review of potential impacts involved with performing repairs to natural gas pipelines throughout Kentucky. The environmental desktop review enabled a streamlined approach to determining the relevant local, state, and federal permitting that would be required as part of project impacts. Niky also prepared figures for each repair site included as final deliverables to the client.

CPWS Long Term Water Supply Program | Columbia, TN | Environmental Scientist

Niky provided assistance with desktop environmental review reporting efforts for a long term water supply program project for Columbia Power and Water Systems in Columbia, TN. The environmental desktop review included reviewing databases to obtain information pertaining to soils, streams and wetlands, 100-year floodplains, cultural resources, hazardous materials and petroleum products, sensitive receptors, recreational resources, and managed lands within the project study area to assist designers and engineers in project planning. Niky assisted by compiling GIS databases, performing GIS analyses, creating figures for reporting, assisting with report preparation, and performing research for completion of a permitting matrix.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Critical Issues Analysis, Lafitte Solar Project | Ouachita Parish, Louisiana, United States | Environmental Scientist

Niky provided GIS mapping and desktop analysis and evaluation of available online data sources for natural and historic resources, threatened and endangered species, soils, geology, air quality, hazardous materials, and other factors that may affect development of a solar facility. Sites were evaluated to develop an understanding of the particular attributes and constraints associated with each site for their potential for solar development.

TVA Anderson 500 Sub-station Mitigation | Oak Ridge, Tennessee, United States | Environmental Scientist

Niky provided Rapid SQT field assistance and desktop analysis for this project in Oak Ridge, TN in Anderson County. The project involves providing mitigation of streams impacted by TVA's electrical substation design, involving the completion of Rapid SQT and SQT protocols. Niky was responsible for performing GIS analyses to determine Desktop parameters associated with the Rapid SQT protocol, including catchment hydrology and reach runoff values.

Runoff Curve Number (CN) Analyses – Various Dam Removal Projects* | Nashville, West Virginia and Illinois, United States | Staff Scientist/GIS Analyst

Niky provided runoff curve number (CN) analyses for several dam removal projects in West Virginia and Illinois. The runoff CN component of these projects provided information about the amount of runoff expected from a rainfall event based on soil and land use classifications. Niky was responsible for delineating associated watersheds using ArcHydro or USGS StreamStats, performing geospatial analysis using layers including NLCD, and NRCS Web Soil Survey, and completing report figures using ArcGIS.

Viewshed Analyses – Various Coal Refuse Areas * | West Virginia | Staff Scientist/GIS Analyst

Niky provided viewshed analyses for various coal refuse area design projects in West Virginia. The viewshed component of these projects provided information about which historic structures in the vicinity of proposed coal refuse area projects were in the viewshed of the proposed project in order to satisfy SHPO regulations, which require that no mining projects hinder the viewshed of such historic structures. Niky was responsible for performing the viewshed analyses in ArcGIS, creating field maps for staff members to visit structures determined to be within associated viewsheds for each project, completing viewshed reports denoting results of the analyses, and completing associated report figures in ArcGIS.

STREAM AND RIVER RESTORATION

Kincheloe Wetland and Stream Mitigation Bank* | Lewis County, West Virginia, United States | Staff Scientist/GIS Analyst

Niky assisted in vegetation monitoring of planted species within the riparian corridor along the relocated Kincheloe Creek in Lewis County, WV. Vegetation monitoring consisted of establishing permanent linear transects along top of bank of the channel and rectangular plots in floodplains and upland buffers. Surveys consisted of counts and identification of surviving live-stakes and planted bare root seedlings along linear transects and counts and identification of bare root and container grown seedlings in plots as well as documenting any volunteer species and exotic invasive species. Niky also assisted with stream assessments, macroinvertebrate sampling, and water quality sampling during credit release years, as well as with yearly monitoring reports and associated figures.

Hayes Run Phase II Mitigation Bank* | Roan County, West Virginia, United States | Staff Scientist/GIS Analyst

Niky performed jurisdictional stream and wetland delineations in bottomland hardwood forests along Hayes Run and unnamed tributaries in Roane County, WV. Stream and wetland delineations were conducted to identify extent of stream and wetland impacts associated with restoration efforts and opportunities for stream and wetland creation, enhancement and restoration adjacent to Hayes Run. Niky also assisted with stream assessments, macroinvertebrate sampling, and water quality sampling for baseline values, as well as with initial reporting and associated figures.

WETLAND DETERMINATION AND DELINEATION

Clean Water Act Section 401/404 Permitting - Itmann Coal Refuse Disposal Area* | Itmann, West Virginia, United States | Staff Scientist/GIS Analyst

Niky provided stream and wetland delineations for this project in Itmann, WV in Wyoming County, approximately 1000 acres, amounting to thousands of linear feet of stream and several wetlands. The project provided design efforts to support additional coal refuse disposal for the Itmann Mine and involved CWA 401/404 permitting to determine impacts to jurisdictional waters within project limits. Niky provided GIS support by performing preliminary background reviews of water resources, hydric soils and national wetland inventories, as well as by creating field maps and Preliminary Jurisdictional Determination report figures. She also assisted with associated CWA 401/404 permitting.

ENDANGERED SPECIES/SPECIES AT RISK ASSESSMENTS

Endangered Crayfish Survey – Pinnacle Mine* | Wyoming County, West Virginia, United States | Staff Scientist/GIS Analyst

Niky provided endangered crayfish survey efforts for this project in Wyoming County, WV. The project provided endangered crayfish surveys to determine potential downstream effects of a mine spill from Pinnacle Mine on aquatic species. Niky was responsible for assisting with sein hauls, GPS collection using Trimble, and field form completion.

SR-8 Hamilton County, TN Floristic Survey | Chattanooga, TN | Environmental Scientist

Niky conducted floristic surveys for federally endangered small whorled pogonia and federally threatened large-flowered skullcap to fulfill USFWS recommendations for a TDOT highway improvement project on SR-8 in Hamilton County, TN. Surveys consisted of searching for and identifying, using botanical keys, the species of interest within the project study area, photo documenting habitat conditions and species of interest, and using GPS mobile technology to denote locations of the species of interest. Niky prepared the report detailing survey findings and created a figure as part of the final client deliverables.

Shane Kelley

Environmental Scientist

Shane serves as an Environmental Scientist in Stantec's Ecological Restoration Group. Currently his experience includes GIS mapping, wetland delineation, asbestos and other hazardous materials surveys, Phase I and II ESA's, and vegetation assessments. In addition, he has experience working with the Endangered Species Act specifically dealing with the management and protection of Indiana (Myotis sodalis) and Northern long-eared bats (Myotis septentrionalis). He also has experience in environmental compliance management and has assisted with the Environmental Compliance and Mitigation Plan for the Ohio River Downtown Bridge in Louisville, Kentucky.

EDUCATION

BS, Natural Resource and Environmental Science, University of Kentucky, Lexington, Kentucky, 2014

CERTIFICATIONS & TRAINING

Asbestos Inspector, Department for Environmental Protection, Louisville, Kentucky, 2018

APNGA Portable Nuclear Gauge Safety Class & U.S. D.O.T Hazmat Certification, American Portable Nuclear Gauge Association, Louisville, Kentucky, 2018

OSHA: 10 Hour Construction Industry, Pure Safety, OSHA, Kentucky, 2017

40-hour HAZWOPER Training, Compliance Solutions, Online, 2018

ACI Level I, Kentucky Ready Mix Concrete Association, Frankfort, Kentucky, 2015

REGISTRATIONS

Asbestos Inspector #A-I-104368-69385, State of Tennessee, 12/01/2018-06/30/2019

Asbestos Inspector #I17-11-7196, Commonwealth of Kentucky, 11/06/2018-11/06/2019

PROJECT EXPERIENCE

VEGETATION ASSESSMENTS

NCDOT Nantahela Bridges Replacement Surveys | Morgan County, North Carolina | Environmental Scientist

NCDOT plans to replace three bridges within the Nantahela Gorge. Shane assisted in cataloging flora/fauna found within the project area as well as searching for threatened/endangered species. Another trip was conducted to assess the potential for bat roosting habitat within the corridor.

Vegetation Monitoring of Fellows Wetland Mitigation Site for Hanson Aggregates | Clark County, Indiana | Environmental Scientist

Project consists of 1,086 feet of on-site riparian mitigation and 7.599 acres of off-site wetland mitigation. Two belt transects were monitored for density of planted and volunteer woody species, composition and percent coverage of herbaceous plants, coverage of noxious or invasive plant species, and coverage of bare ground. Shane assisted in vegetation monitoring along both transects.

Enbridge 6B Vegetation Monitoring for Wetland Restoration | Louisville, Kentucky | Environmental Scientist

Stantec provided spill response to a large oil spill that occurred when there was a rupture in the pipeline. We also provided vegetation monitoring on wetland restoration sites that were affected by the spill. Shane performed QA/QC for the vegetation monitoring to ensure that the information entered in the database was correct.

AIR QUALITY

CERCLA Actions | Grosse, Illinois | Data Collection

The project is located on a superfund site where Stantec was retained to determine the cause of air quality issues within hangars at the airport. It was first assumed that chemicals in the soil were the main source of air quality issues, however, the team then investigated the possibility that chemicals stored on site could be contributing to the air quality. Shane was responsible for compiling MSDS data of all the chemicals and their constituents that were being kept on site.

ENVIRONMENTAL & RISK MANAGEMENT

Adams Creek Solar Farm CIA | Wilbarger & Wichita County, Texas | Environmental Scientist

Prepared a Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

Dove Run Solar Farm CIA | Duval County, Texas | Environmental Scientist

Prepared a Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

EC&R Ashwood Solar Project | Lyon & Caldwell Counties, Kentucky | Environmental Scientist

Prepared a Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

Intersect Power Juno Solar Project | Borden County, Texas | Environmental Scientist

Prepared a Limited Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The Limited CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hydrology and water quality, agriculture and land use, noise, and visual resources.

TVA ALF Groundwater Investigation Edge Site Due Diligence | Memphis, Tennessee | Environmental Scientist

TVA retained Stantec to assess potential environmental concerns with acquiring a property adjacent to Allen Fossil Plant. Shane led a field team to investigate potential concerns regarding streams, wetlands, and hazardous materials. It was recommended that TVA conduct a Phase I ESA investigation and Phase II ESA regarding potential contamination on-site as well as wetland delineations to determine any potential jurisdictional features located on the property.

Advanced Power Cottonwood Bayou CIA | Brazoria County, Texas | Environmental Scientist

Prepared a Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

EC&R Win Solar Site CIA | Cross County, Arkansas | Environmental Scientist

Prepared a Critical Issues Analysis Update report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

Savion Painted Rock Solar Farm CIA | Duval County, Texas | Environmental Scientist

Prepared a Critical Issues Analysis report and figures documenting the findings of a desktop review of publicly available environmental data. The CIA evaluated critical environmental issues, potential permits, and discussed existing site conditions that may influence Project development, construction, or operation. These included biological resources, cultural resources, hazards and hazardous materials, hydrology and water quality, agriculture and land use, noise, and visual resources. The report also identified potential critical permitting or development issues relating to Project design, engineering, permitting, and construction processes. Finally, this report included a permitting matrix for possible natural resources permitting requirements from local, state, federal, and/or tribal authorities for the Project.

EC&R Sterling Prairie CIA | Matagorda County, Texas | Environmental Scientist

Shane assisted in completing GIS mapping for maps included in the report for the approximately 1,500 acre site in Matagorda County, Texas. This included reviewing available public information such as FEMA floodplain maps, soil survey data, threatened and endangered species, stream and wetland maps, etc.

ASBESTOS, LEAD BASED PAINT, AND HAZARDOUS MATERIAL (MERCURY, PCB) ASSESSMENTS

WPAFB Facility 31250 Relocate Clothing Sales | Dayton, Ohio | Environmental Scientist/Assistant Project Manager

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on the former pharmacy at Facility 31250. The area was previously used as a pharmacy and office space and the planned renovation will convert the unoccupied space to a clothing sales/alterations area. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He prepared the final deliverable report and sample location maps discussing the findings of the survey.

WPAFB PCR Gate Study | Dayton, Ohio | Environmental Scientist/Assistant Project Manager

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials PCR on Gates 1A, 15A, 1B, and 22B. The gates allow entrance on to the military base and house security guards vetting entrants to the base. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He prepared the final deliverable report and sample location maps discussing the findings of the survey.

Honeywell Danville Asbestos Survey | Danville, Kentucky | Environmental Scientist

Shane led a field team over three days to conduct an ACM survey on the Honeywell manufacturing plant in Danville, Kentucky. Shane collected 141 bulk samples at the property and found 25 homogenous areas containing ACM including floor tile and associated mastic, leveling compound, carpet mastic, lag seal on fiberglass pipe insulation, galbestos coating, roof sealants, textured finish, asphaltic sealant, window caulk, and assumed ACM fire doors. Shane wrote a report documenting the findings and locations of ACM materials. Additionally, he wrote an O&M plan to assist the plant in managing their ACM materials.

Rock Island Arsenal Hazardous Materials Survey | Moline, Illinois | Task Manager/Environmental Scientist

Stantec was retained to conduct a hazardous materials survey on Building 490 at Rock Island Arsenal assessing for asbestos, radon, lead-based paint, and PCBs. Shane was the assistant project manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He prepared the final deliverable report and sample location maps discussing the findings of the survey.

Wright Patterson Air Force Base (WPAFB) Facility 30257 Hazardous Material Assessment | Dayton, Ohio

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on Facility 30257. This warehouse is primarily used as storage of military equipment with several office areas. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He prepared the final deliverable report and sample location maps discussing the findings of the survey. The survey results found asbestos-containing material in window glazing, preformed block pipe insulation, and caulk associated with window units. In addition, lead-based paint was identified on several surfaces throughout the facility.

Wright Patterson Air Force Base (WPAFB) Facility 20016 Environmental Hazard Assessment | Dayton, Ohio | Assistant Project Manager, Field Lead

Stantec was retained by WPAFB to conduct a Environmental Hazard Assessment on Facility 20016 to aid with a Planning Charrette Report to estimate the cost of renovation of the building. The assessment area was primarily comprised of office, storage, and mechanical space. Shane was the assistant project manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, radon, and PCB samples as well as inventorying all other hazardous materials. He prepared the final deliverable report and sample location maps discussing the findings of the survey. The survey results found asbestos-containing material (ACM) in floor tile and associated mastic, glazing tape on window assemblies, preformed block pipe insulation, duct fiber mastic, and insulating cement. In addition, fire doors and inaccessible duct insulation were assumed to be ACM. No radon levels in the facility were detected in exceedance of the action level for initiating radon remediation.

General Electric Lighting Somerset - Hazardous Materials Assessment | Somerset, Kentucky | Asbestos Inspector

Performed an environmental survey to support the demolition of a General Electric Lighting facility to identify the presence of toxic and regulated substances including but not limited to: asbestos containing materials (ACM), lead-based coatings, radiation sources in smoke detectors, mercury containing lamps, mercury-containing switches, PCB light ballasts, and ozone depleting substances (ODS) in refrigerants. Assisted in preparing a findings report, abatement drawings, technical specifications, and estimated costs for abatement. 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.

General Electric Lighting Lexington - Hazardous Materials Assessment | Lexington, Kentucky | Asbestos Inspector

Performed an environmental survey to support the demolition of a General Electric Lighting facility to identify the presence of toxic and regulated substances including but not limited to: asbestos containing materials (ACM), lead-based coatings, radiation sources in smoke detectors, mercury containing lamps, mercury-containing switches, PCB light ballasts, and ozone depleting substances (ODS) in refrigerants. Assisted in preparing a findings report, abatement drawings, technical specifications, and estimated costs for abatement. 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.

Wright Patterson Air Force Base (WPAFB) Facility 10252 Hazardous Material Assessment | Dayton, Ohio | Task Manager, Field Lead

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on Facility 10252 in preparation for an RFP. The survey area was primarily comprised of empty office space. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples as well as inventorying all other hazardous materials. He prepared the final deliverable report and sample location maps discussing the findings of the survey. The survey results found asbestos-containing material in residual floor mastic underneath carpet with in the survey area.

Wright Patterson Air Force Base (WPAFB) Facility 20065 Hazardous Materials Assessment | Dayton, Ohio | Assistant Project Manager, Field Lead

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on portions of Facility 20065. The multi-use building contains office space, lab space, storage and large warehouse areas. Shane was the assistant project manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He prepared the final deliverable report and sample location maps discussing the findings of the survey. The survey results found asbestos-containing material in preformed block pipe insulation, insulating cement and fabric jacket, glazing compound on window assemblies, floor tile, and mastic. In addition, lead-based paint was identified on approximately 300 square feet of concrete surface within the facility.

Wright Patterson Air Force Base (WPAFB) Facility 30015 Hazardous Materials Assessment | Dayton, Ohio | Assistant Project Manager, Field Lead

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on Facility 30015. The survey area was primarily comprised of office space and one garage bay. Shane was the assistant project manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples as well as inventorying all other hazardous materials. He prepared the final deliverable report and sample location maps discussing the findings of the survey. The survey results found no asbestos-containing material or lead-based paint.

General Electric Lighting Memphis - Hazardous Materials Assessment | Memphis, Tennessee | Asbestos Inspector

Performed an environmental survey to support the demolition of a General Electric Lighting facility to identify the presence of toxic and regulated substances including but not limited to: asbestos containing materials (ACM), lead-based coatings, radiation sources in smoke detectors, mercury containing lamps, mercury-containing switches, PCB light ballasts, and ozone depleting substances (ODS) in refrigerants. Assisted team in follow-up of PCB materials sampling of suspect materials and underlying concrete, as well as mercury vapor survey using NIOSH Method 6009. Assisted in preparing a findings report, abatement drawings, technical specifications, and estimated costs for abatement. 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.

Wright Patterson Air Force Base (WPAFB) Munitions Bunker Demolition Survey | Montgomery and Greene Counties, Ohio

Stantec was retained by WPAFB to conduct a pre-demolition hazardous materials survey on six ammunitions bunkers located on the base. Shane assisted in the collection of asbestos, lead-based paint, and PCB samples. Mercury vapor tests were also taken within the bunkers. He also wrote the final deliverable report based on the findings from the samples taken.

Wright Patterson Air Force Base (WPAFB) Clerestory Window Replacement Survey | Montgomery and Greene Counties, Ohio

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on the windows of the historic Clerestory building located on the base. Shane assisted in the collection of asbestos, lead-based paint, and PCB samples. He also wrote the final deliverable report based on the findings from the samples taken.

Healthcare Property Assessments | Hawaii | Environmental Scientist

Shane Conducted Expedited Baseline Hazmat Assessments, on three large healthcare facilities. Shane worked with multiple teams comprised of twenty-two Stantec professionals from California, Colorado, Kentucky, Michigan, Washington, Utah, and two subcontractors from Hawaii. The Expedited Baseline Hazmat Assessments consisted of comprehensive, building-wide assessments and figure drawings for asbestos, lead, polychlorinated biphenyls (PCBs), mercury, formaldehyde, and Canec (sugar cane bagasse panels which commonly contain arsenic). Asbestos screenings utilized air sampling and bulk sampling methodologies. Lead screenings utilized X-ray fluorescence (XRF) and bulk sampling methodologies. Mercury, PCB-containing equipment, and Canec were inventoried.

Wright Patterson Air Force Base (WPAFB) Roof Renovation Survey | Montgomery and Greene Counties, Ohio

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on the roof of occupied base building. Shane assisted in the collection of asbestos, lead-based paint, and PCB samples. He also wrote the final deliverable report based on the findings from the samples taken.

Wright Patterson Air Force Base (WPAFB) Facility 20045 Pre-Renovation Survey | Montgomery and Greene Counties, Ohio | Task Manager

Stantec was retained by WPAFB to conduct a hazardous materials survey on a portion of Facility 20045 for a study to renovate the basement. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of ACM, LBP, and PCB samples and completed an inventory of potentially hazardous materials within the study area. Additionally, he conducted a followup survey for radon within the basement of the facility. Final results were documented within a report and delivered to the client.

Target Nationwide Asbestos-Containing Materials Survey | Kentucky, Tennessee, and Georgia | Asbestos Inspector

Stantec has been retained by Target to several times from 2016 to 2019 to conduct ACM surveys on a number of stores nationwide in preparation for renovations. Shane has completed surveys on several stores throughout Kentucky, Tennessee, and Georgia.

Wright Patterson Air Force Base (WPAFB) Facility 20018/20018G Pre-Renovation Survey | Montgomery and Greene Counties, Ohio

Stantec was retained by WPAFB to conduct a pre-renovation hazardous materials survey on Facility 20018/20018G. This multiuse building is used for office space and laboratories for base engineers. Shane was the task manager for this project and ensured that the project came in under budget as well as coordinating with the site contact and subconsultants contracted under Stantec. He also acted as the field lead and assisted in the collection of asbestos, lead-based paint, and PCB samples. He also wrote the final deliverable report based on the findings from the samples taken.

Wright Patterson Air Force Base (WPAFB) Facility 20489, Museum Lobby Pre-Renovation Survey | Montgomery and Greene Counties, Ohio

KYTC plans to expand 46 miles of the Mountain Parkway from 2 lanes to 4 lanes with a suicide lane. Stantec conducted pre-demolition hazardous materials surveys on two (2) properties within the project area. Asbestos-containing material was identified in the roof mastic used on the commercial property. Shane assisted in collecting samples and wrote the final deliverable reports on the findings to deliver to KYTC. Soil samples were also taken around two above-ground storage tanks to determine if any soil contamination had occurred. Several hazardous constituents were identified and follow-up samples were taken in an attempt to delineate the extent of contamination. Shane also acted as the field lead for 18 other hazardous materials surveys on various properties along the road corridor including two gas stations, an autoshop, residential buildings, a restaurant, and office spaces.

Mountain Parkway Expansion Survey | Salyersville, Kentucky

KYTC plans to expand 17 miles of the Mountain Parkway from 2 lanes to 4 lanes with a suicide lane. Stantec conducted pre-demolition hazardous materials surveys on twenty (20) properties within the project area. Asbestos-containing material was identified on several properties throughout the project area. Shane lead field teams in collecting samples and wrote the final deliverable reports on the findings to deliver to KYTC. Soil samples were also taken around two above-ground storage tanks to determine if any soil contamination had occurred. Several hazardous constituents were identified and follow-up samples were taken in an attempt to delineate the extent of contamination.

SOILS & MATERIALS LABORATORY TESTING

TVA Geotechnical Laboratory Testing | Louisville, Kentucky | Laboratory Assistant

Shane assisted the geotechnical laboratory in testing soil and rock for various TVA jobs in 2014, 2015, and 2016. Tests included: gradation analysis, Atterberg limits, hydrometer testing, moistures, proctors, and profiling soils.

STREAM AND RIVER RESTORATION

Minors Creek Stream Restoration Project | Owen County, Kentucky | Data Entry

Stantec was retained to complete a stream restoration project on Minors Creek in Owen County, Kentucky. Shane assisted in entry of the data obtained from the initial field surveys.

PIPELINE SURVEY

Indiana Bat (*Myotis sodalis*) and Northern Long-Eared Bat (*Myotis septentrionalis*) Hybernacula and Acoustic Surveys for Columbia Gas | West Virginia

During the summer of 2016, Shane assisted in threatened and endangered species survey efforts for a proposed gas pipeline for Columbia Gas in northwestern West Virginia along a 100+-mile corridor in Cabell, Putnam, Roane, Wirt, Ritchie, Doddridge, and Tyler counties. Field investigations consisted of surveys for winter hibernacula habitat within the full pipeline corridor as well as mist netting surveys and roost tree surveys.

DTE Pipeline Inspection | Morgantown, West Virginia

Shane assisted in a pipeline pump station inspection of several pump stations along the line. An inventory of potential environmental concerns was taken and documented by pictures. A document review was also conducted at the companies site office to obtain any applicable documentation of inspections, spills, violations, etc. Interviews of company environmental officers were also conducted.

PHASE I & II ENVIRONMENTAL SITE ASSESSMENTS

Ford Custom Classic Homes Lewisburg Pike Phase I ESA | Williamson County, Tennessee | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review of the approximately 312-acre site. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

CSO Sewer Separation Phase I ESA | Reading, Ohio | Environmental Scientist

The Cincinnati MSDGC intended to purchase a permanent and temporary easement for a sewer system improvement in an industrial area of Reading, Ohio. Stantec was retained to design the sewer system improvement and conduct a Phase I ESA to determine potential liability with the project. Shane prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review of the approximately 1,400-acre site. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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. A number of RECs were identified within the project area and a Phase II investigation was recommended. Shane assisted in creating a sampling plan to assess the existence/extent of contamination within the project.

EC&R Win Solar Site | Cross County, Arkansas | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review of the approximately 1,400-acre site. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

EC&R Evergreen Solar Site - Phase I Environmental Site Assessment | Soperton, Georgia | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

Terraform Golden Crescent Solar Site | Lexington, North Carolina | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

Ecoplexus Interlachen Solar Site | Interlachen, Florida | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

Ecoplexus Haines Creek Solar Site | Leesburg, Florida | Environmental Scientist

Prepared a Phase I ESA report, photo log, and figures documenting the findings of the site visit and historical records review. Coordinated with site contacts and field crew to gather environmental site documentation and permits to determine any potential environmental concerns for the site. 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.

CONSTRUCTION OBSERVATION, INSPECTIONS AND REPORTING

Tennessee Valley Authority Widows Creek Gypsum Stacking Operation | Jackson County, Alabama

Stantec was retained by the TVA to monitor construction of the gypsum stacking operation occurring at Widows Creek Fossil Plant. While on site Shane monitored construction activities of the contractor and provided nuclear gauge testing on lifts of gypsum.

WETLAND DETERMINATION AND DELINEATION

AEP Clifty Creek CCR Demonstration Wetland Determinations | Madison, Indiana | Environmental Scientist

The CCR Rule established that, by October 17, 2018, any owner or operator of a new CCR landfill, existing or new CCR surface impoundment, or any lateral expansion of a CCR unit is required to demonstrate that the unit is not located within a wetland. Shane assisted in conducting stream and wetland delineations at the west boiler slag pond and the landfill runoff collection pond at Clifty Creek. No jurisdictional wetlands or streams were identified during the delineation. Stream and wetland delineations were conducted using the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0) to identify any potential jurisdictional waters within the CCR units.

ENVIRONMENTAL ASSESSMENTS

Big Lick Hollow Biological Assessment | Nelson County, Kentucky | Environmental Scientist

Assisted in writing Biological Assessment for Big Lick Hollow. Wrote species descriptions for potential T/E species in the BA.

ENDANGERED SPECIES/SPECIES AT RISK ASSESSMENTS

Indiana Bat (*Myotis sodalis*) and Northern Long-Eared Bat (*Myotis septentrionalis*) Mist Net Surveys for Proposed Black Rock Wind Farm | Keyser, West Virginia | Environmental Scientist

Conducted mist netting for 13 nights (5 sites) on a linear proposed wind farm facility. Due to the location within the Appalachian Recovery Unit, each site was required to be surveyed for 10 net-nights. Species captured included big brown bats (*Eptesicus fuscus*), eastern red bats (*Lasiurus borealis*), hoary bat (*Lasiurus cinereus*), and eastern small-footed bats (*Myotis leibii*). Additionally, several federally threatened northern long-eared bats were captured during the mist netting efforts.

NCDOT Nantahela Bridges Rare Bird & Plant Surveys | North Carolina | Environmental Scientist

Conducted point count bird surveys and rare plant surveys in forest service property within the potential area of effect for the road improvement. Point count surveys were conducted at two separate times during the breeding season for at least two consecutive days each trip. Surveys were conducted at five points throughout the project area for ten minutes each. The golden-winged warbler, a candidate species for listing, was identified within the project area during both occasions. Additionally the full project area was surveyed for the presence of T/E plants and forest service listed forest sensitive species.

NCDOT A-0009 Rare Bird and Plant Surveys | Stecoah, North Carolina | Environmental Scientist

Conducted point count bird surveys and rare plant surveys in forest service property within the potential area of effect for the road improvement. Point count surveys were conducted at two separate times during the breeding season for at least two consecutive days each trip. Surveys were conducted at five points throughout the project area for ten minutes each. The golden-winged warbler, a candidate species for listing, was identified within the project area during both occasions. Additionally the full project area was surveyed for the presence of T/E plants and forest service listed forest sensitive species.

NCDOT Hanging Dog Creek Rare Bird and Plant Surveys | North Carolina | Environmental Scientist

Conducted point count bird surveys and rare plant surveys in forest service property within the potential area of effect for the road improvement. Point count surveys were conducted at two separate times during the breeding season for at least two consecutive days each trip. Surveys were conducted at five points throughout the project area for ten minutes each. The golden-winged warbler, a candidate species for listing, was identified within the project area during both occasions. Additionally the full project area was surveyed for the presence of T/E plants and forest service listed forest sensitive species.

ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Appendix C User Provided Records
Report Date

Appendix C USER PROVIDED RECORDS



NOT PROVIDED

ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Appendix D Environmental Agency Database Search Report
Report Date

**Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH
REPORT**



Ashwood Site

4255 US HIGHWAY 641

Eddyville, KY 42038

Inquiry Number: 6099166.2s

June 22, 2020

EDR Area / Corridor Report



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

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| Government Records Searched/Data Currency Tracking | GR-1 |

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 (E 1527-13), 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

4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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.

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.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

A review of the SHWS list, as provided by EDR, and dated 05/15/2020 has revealed that there is 1 SHWS site within approximately 1 mile of the requested target property.

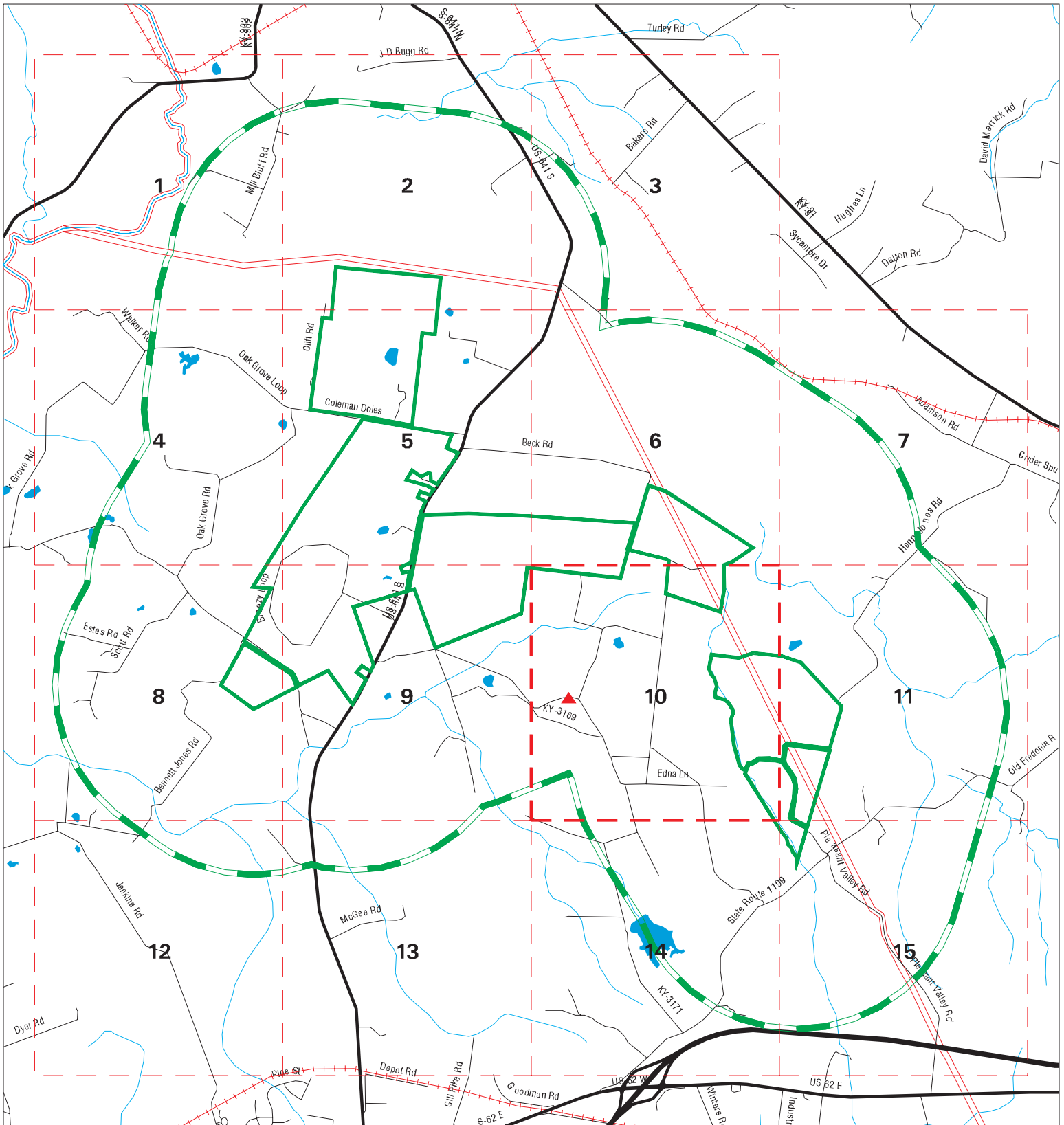
| <u>Site</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID / Focus Map(s)</u> | <u>Page</u> |
|--|----------------------|-----------------------------|------------------------------|-------------|
| WESTERN KENTUCKY COR Facility Id: 2794 Facility Status: Closed | NEW BETHEL CHURCH RD | SSE 1/2 - 1 (0.582 mi.) | 1 / 10 | 36 |

MAPPED SITES SUMMARY

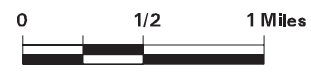
Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

| MAP ID / FOCUS MAP | SITE NAME | ADDRESS | DATABASE ACRONYMS | DIST (ft. & mi.) DIRECTION |
|-----------------------|----------------------|----------------------|-------------------|-------------------------------|
| 1 / 10 | WESTERN KENTUCKY COR | NEW BETHEL CHURCH RD | SHWS | 3074 0.582 SSE |

Key Map - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20 4:23 PM</p> |
|--|--|

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>Federal NPL site list</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>Federal Delisted NPL site list</i> | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal CERCLIS list</i> | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal CERCLIS NFRAP site list</i> | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA CORRACTS facilities list</i> | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal RCRA non-CORRACTS TSD facilities list</i> | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA generators list</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>State- and tribal - equivalent CERCLIS</i> | | | | | | | | |
| SHWS | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| <i>State and tribal landfill and/or solid waste disposal site lists</i> | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>State and tribal leaking storage tank lists</i> | | | | | | | | |
| PSTEAF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SB193 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>State and tribal registered storage tank lists</i> | | | | | | | | |
| FEMA UST | 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 |
|--|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| 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 |
| State and tribal institutional control / engineering control registries | | | | | | | | |
| ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal voluntary cleanup sites | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal Brownfields sites | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <u>ADDITIONAL ENVIRONMENTAL RECORDS</u> | | | | | | | | |
| Local Brownfield lists | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Landfill / Solid Waste Disposal Sites | | | | | | | | |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HIST LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Hazardous waste / Contaminated Sites | | | | | | | | |
| 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 |
| Local Land Records | | | | | | | | |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| Records of Emergency Release Reports | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| SPILLS | TP | | NR | NR | NR | NR | NR | 0 |
| Other Ascertainable Records | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| 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 |

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 |
|---------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| 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 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | TP | | NR | NR | NR | NR | NR | 0 |
| FUELS PROGRAM | 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 |
| 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 |
|---------|----|--|----|----|----|----|----|---|

MAP FINDINGS SUMMARY

| <u>Database</u> | <u>Search Distance (Miles)</u> | <u>Target Property</u> | <u>< 1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>> 1</u> | <u>Total Plotted</u> |
|-----------------|--|----------------------------|-----------------|------------------|------------------|----------------|---------------|--------------------------|
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 |
| - Totals -- | | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

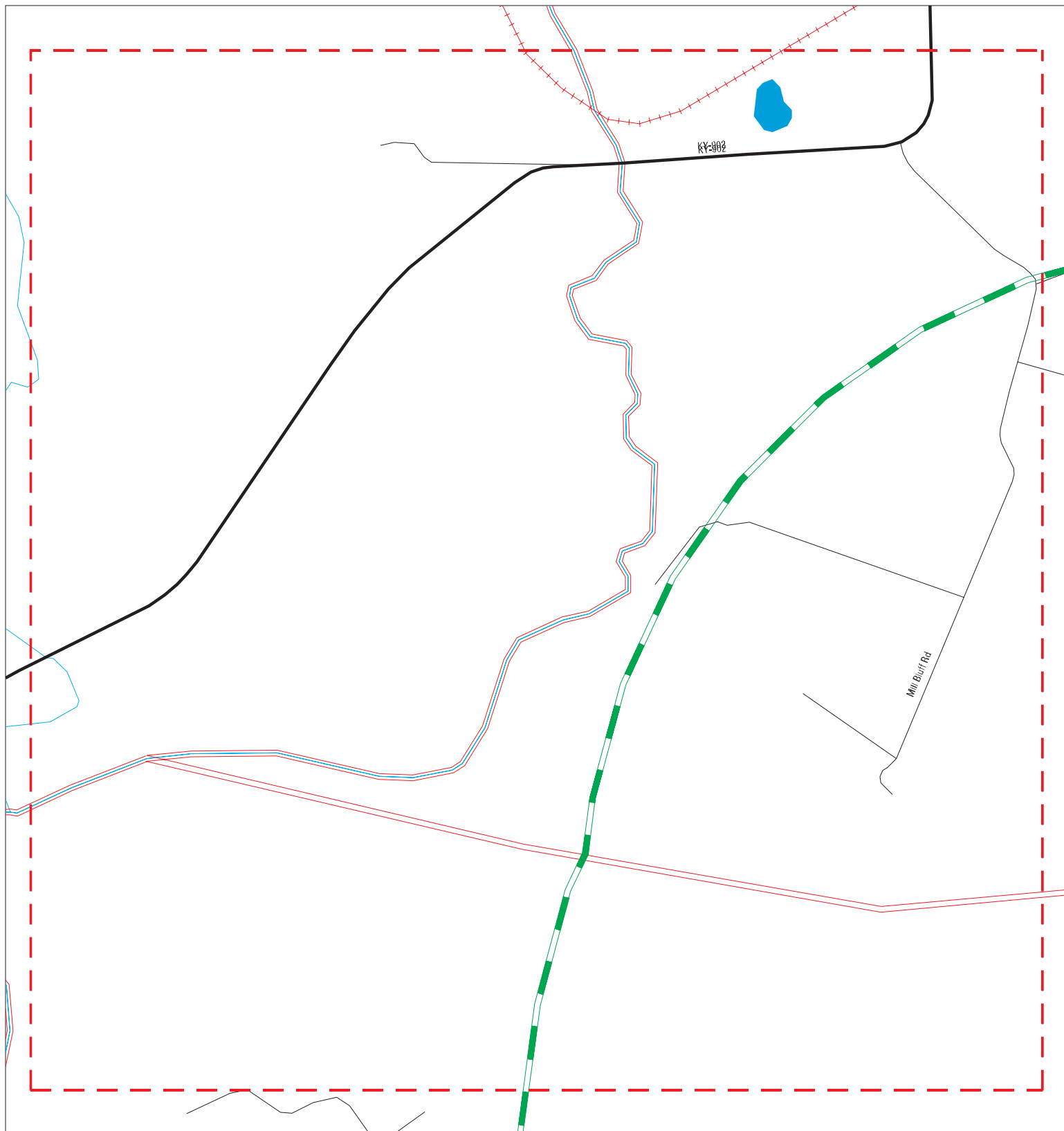
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 6099166.2s



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



SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
CITY/STATE: Eddyville KY
ZIP: 42038

CLIENT: Stantec
CONTACT: Shane Kelley
INQUIRY #: 6099166.2s
DATE: 06/22/20

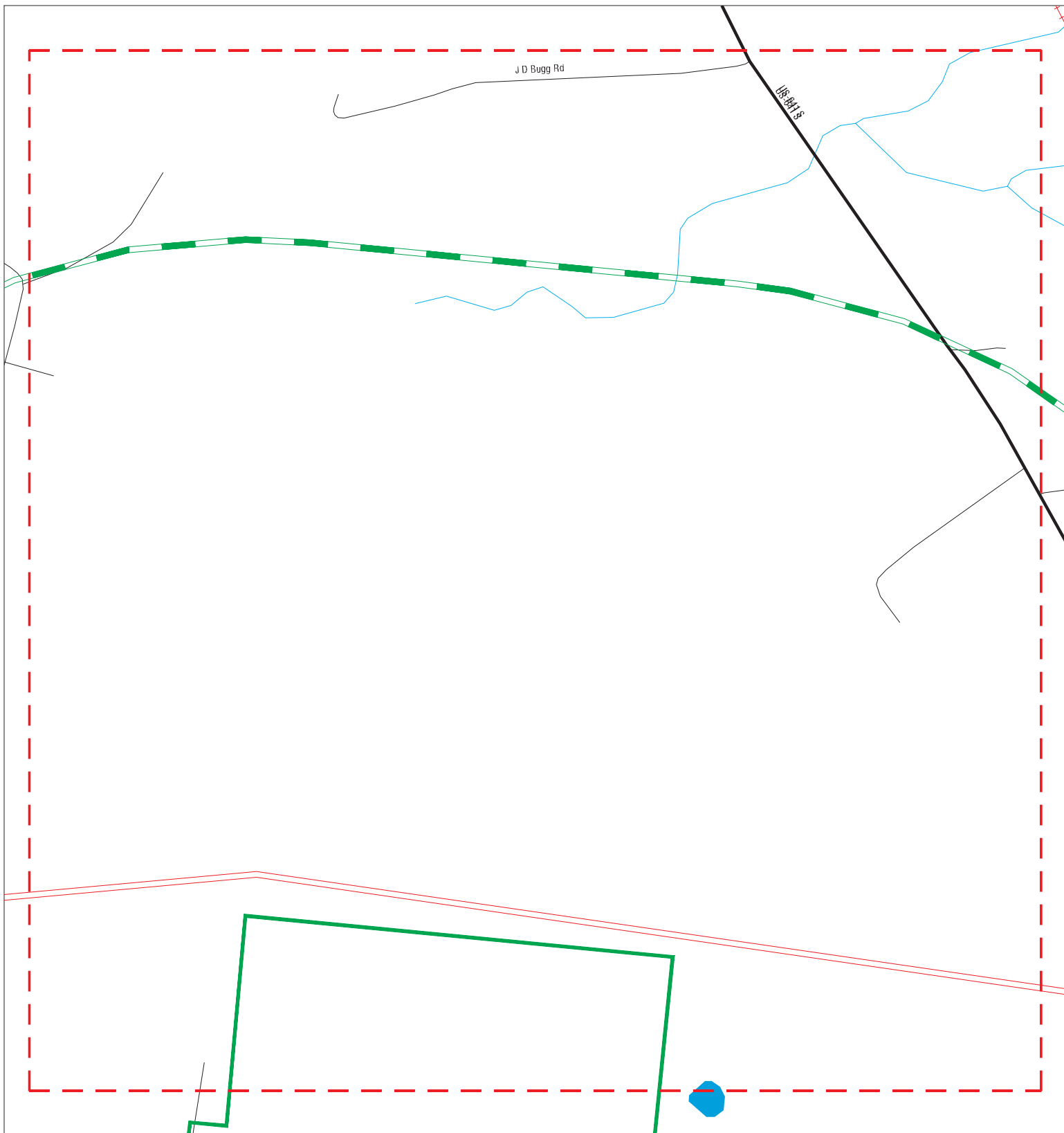
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

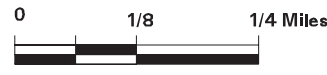
| MAP ID / FOCUS MAP | SITE NAME | ADDRESS | DATABASE ACRONYMS | DIST (ft. & mi.) DIRECTION |
|-----------------------|-----------|---------|-------------------|-------------------------------|
|-----------------------|-----------|---------|-------------------|-------------------------------|

NO MAPPED SITES FOUND

Focus Map - 2 - 6099166.2s



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



| | |
|---|---|
| SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038 | CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20 |
|---|---|

MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 3 - 6099166.2s



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



SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
CITY/STATE: Eddyville KY
ZIP: 42038

CLIENT: Stantec
CONTACT: Shane Kelley
INQUIRY #: 6099166.2s
DATE: 06/22/20

MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 4 - 6099166.2s



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



SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
CITY/STATE: Eddyville KY
ZIP: 42038

CLIENT: Stantec
CONTACT: Shane Kelley
INQUIRY #: 6099166.2s
DATE: 06/22/20

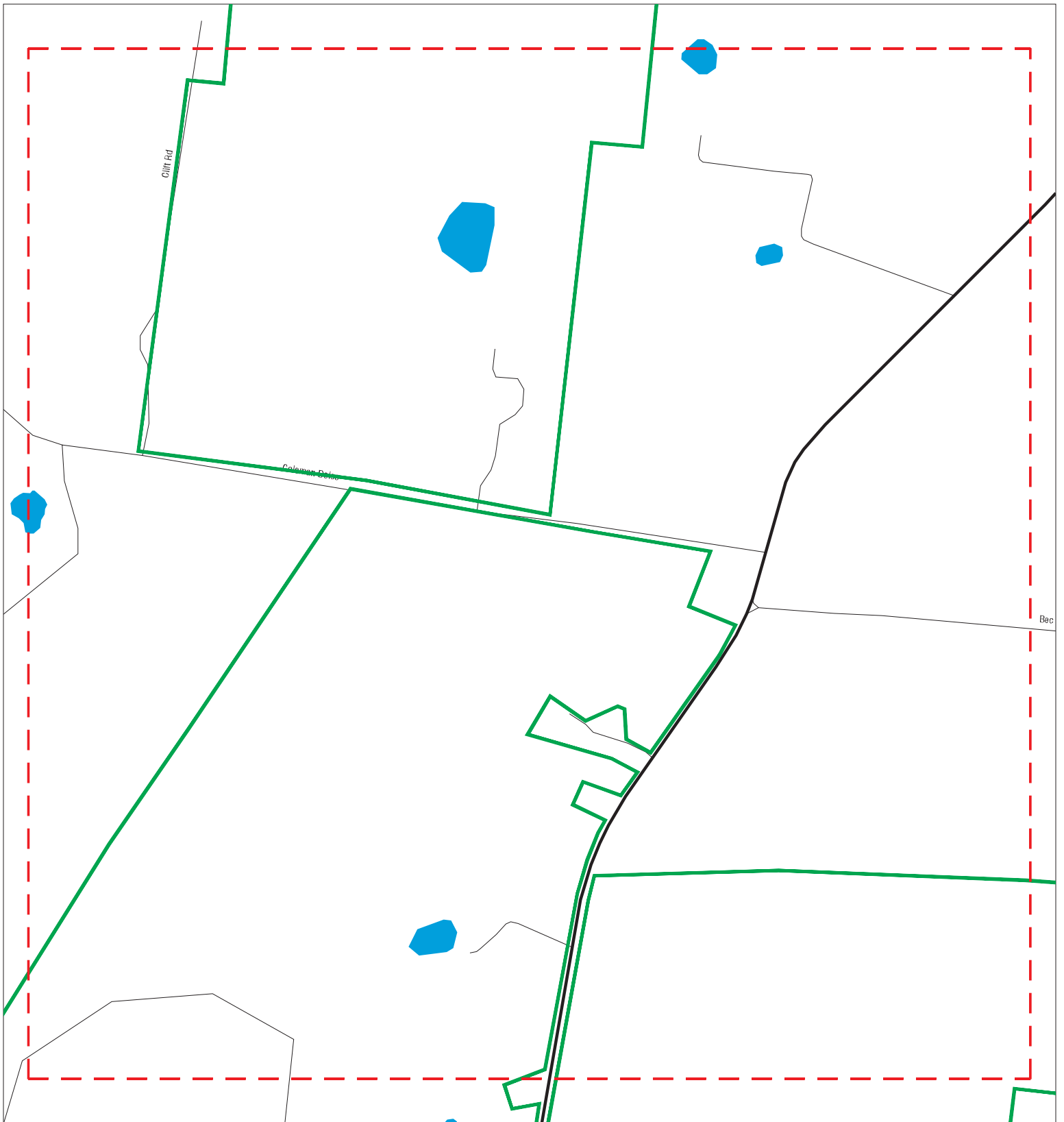
MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 5 - 6099166.2s



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



SITE NAME: Ashwood Site
 ADDRESS: 4255 US HIGHWAY 641
 CITY/STATE: Eddyville KY
 ZIP: 42038

CLIENT: Stantec
 CONTACT: Shane Kelley
 INQUIRY #: 6099166.2s
 DATE: 06/22/20

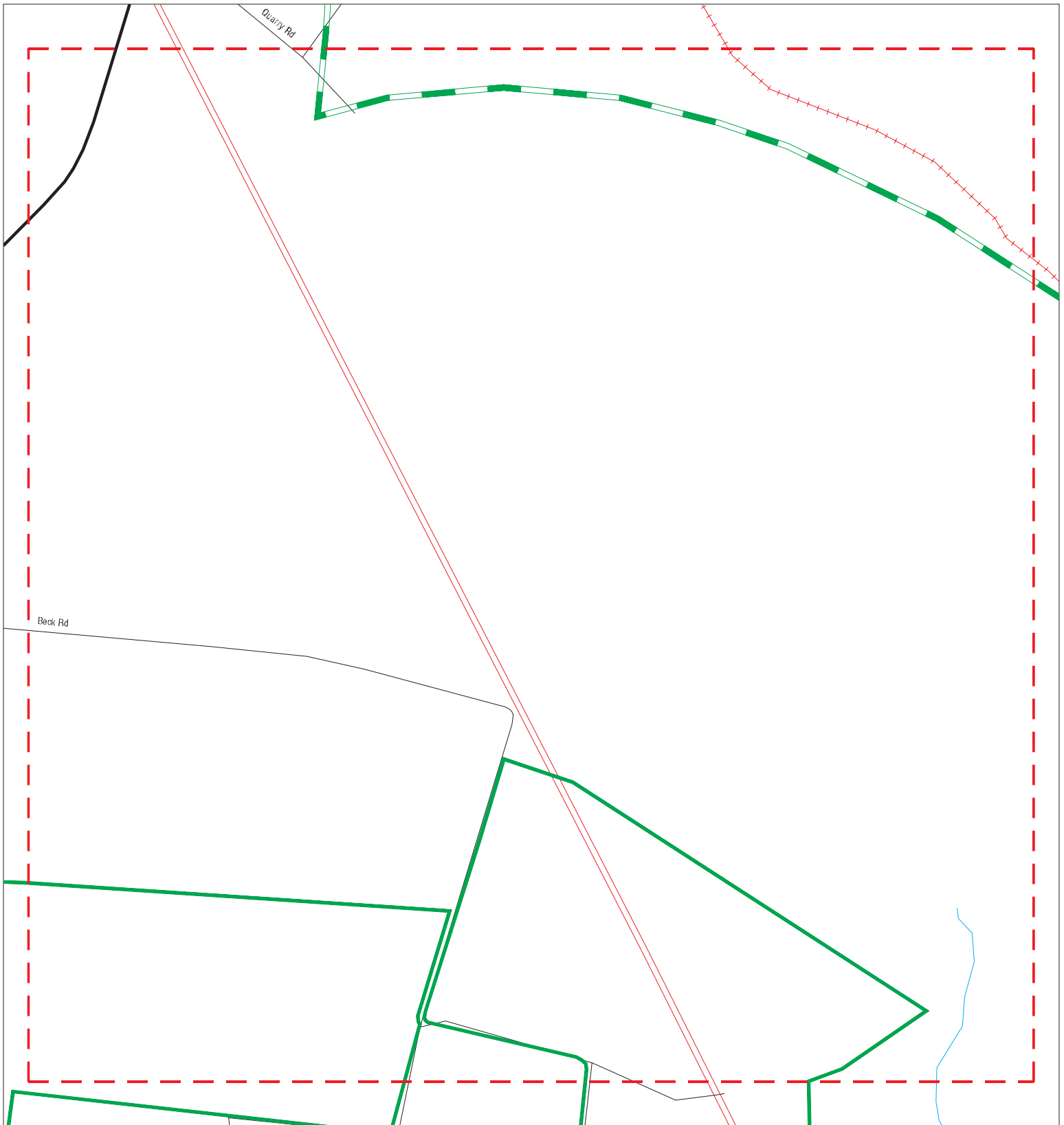
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 6 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

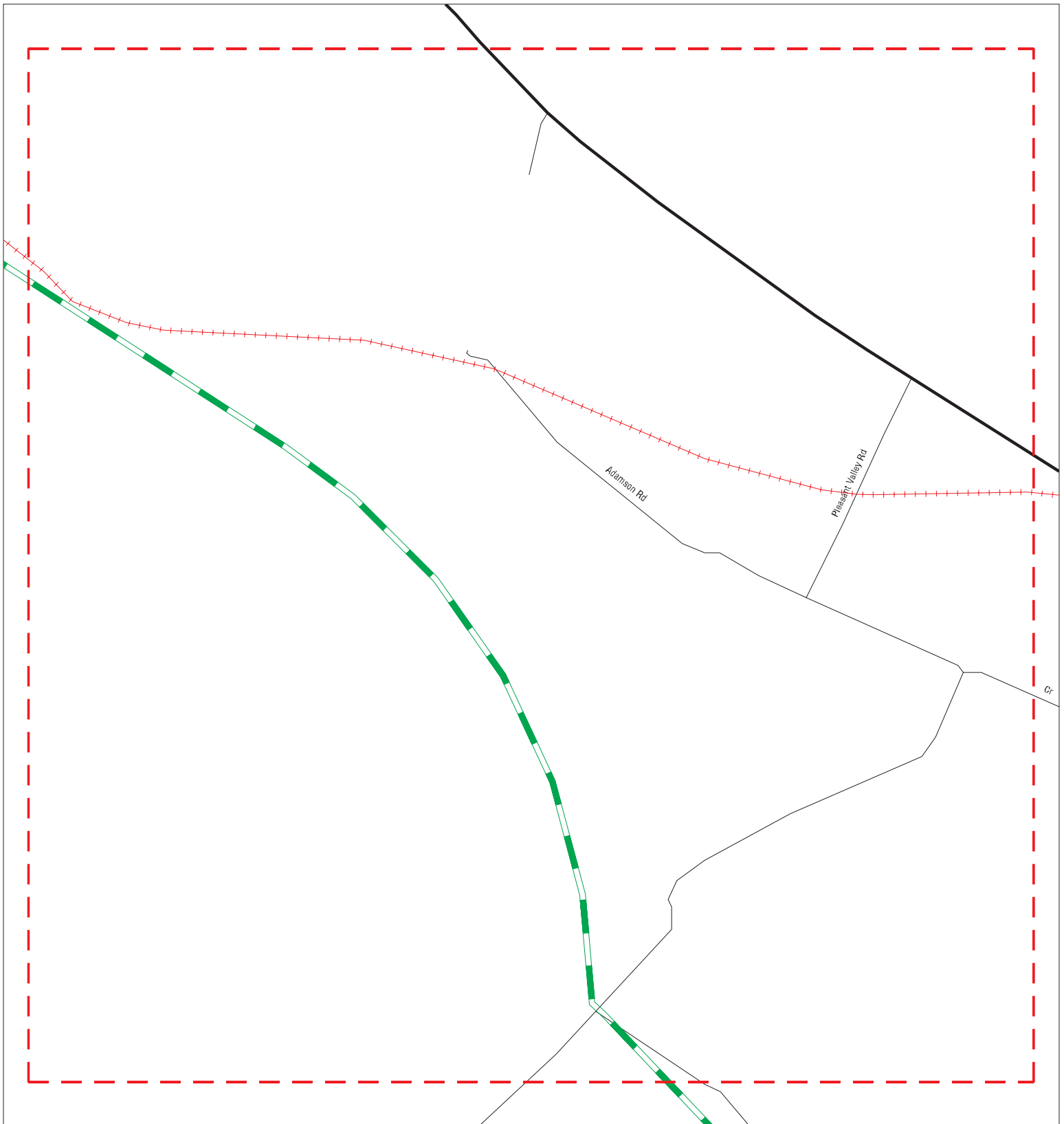
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

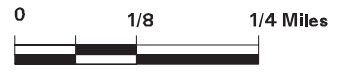
| MAP ID / FOCUS MAP | SITE NAME | ADDRESS | DATABASE ACRONYMS | DIST (ft. & mi.) DIRECTION |
|-----------------------|-----------|---------|-------------------|-------------------------------|
|-----------------------|-----------|---------|-------------------|-------------------------------|

NO MAPPED SITES FOUND

Focus Map - 7 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

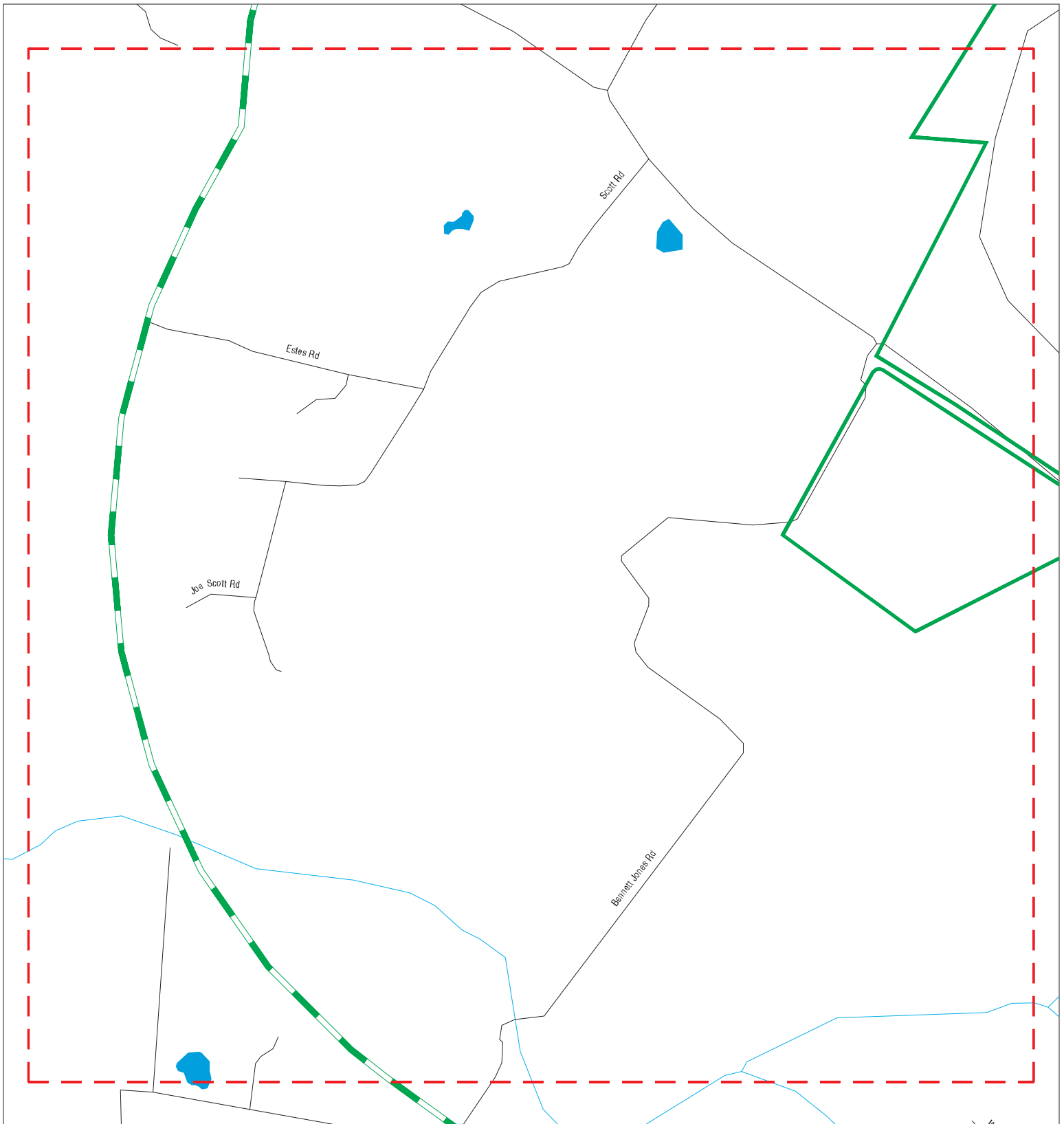
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 8 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

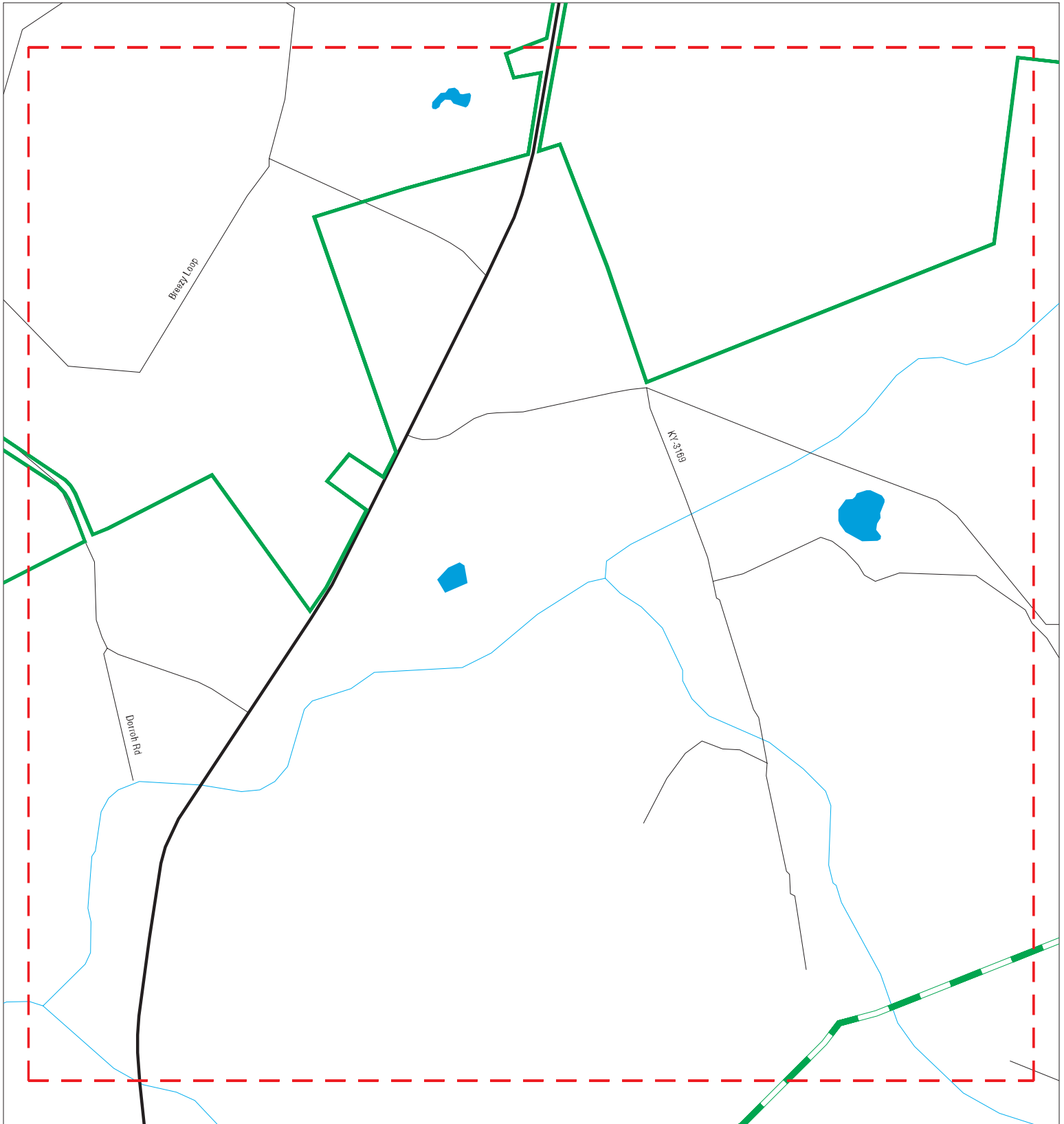
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 9 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

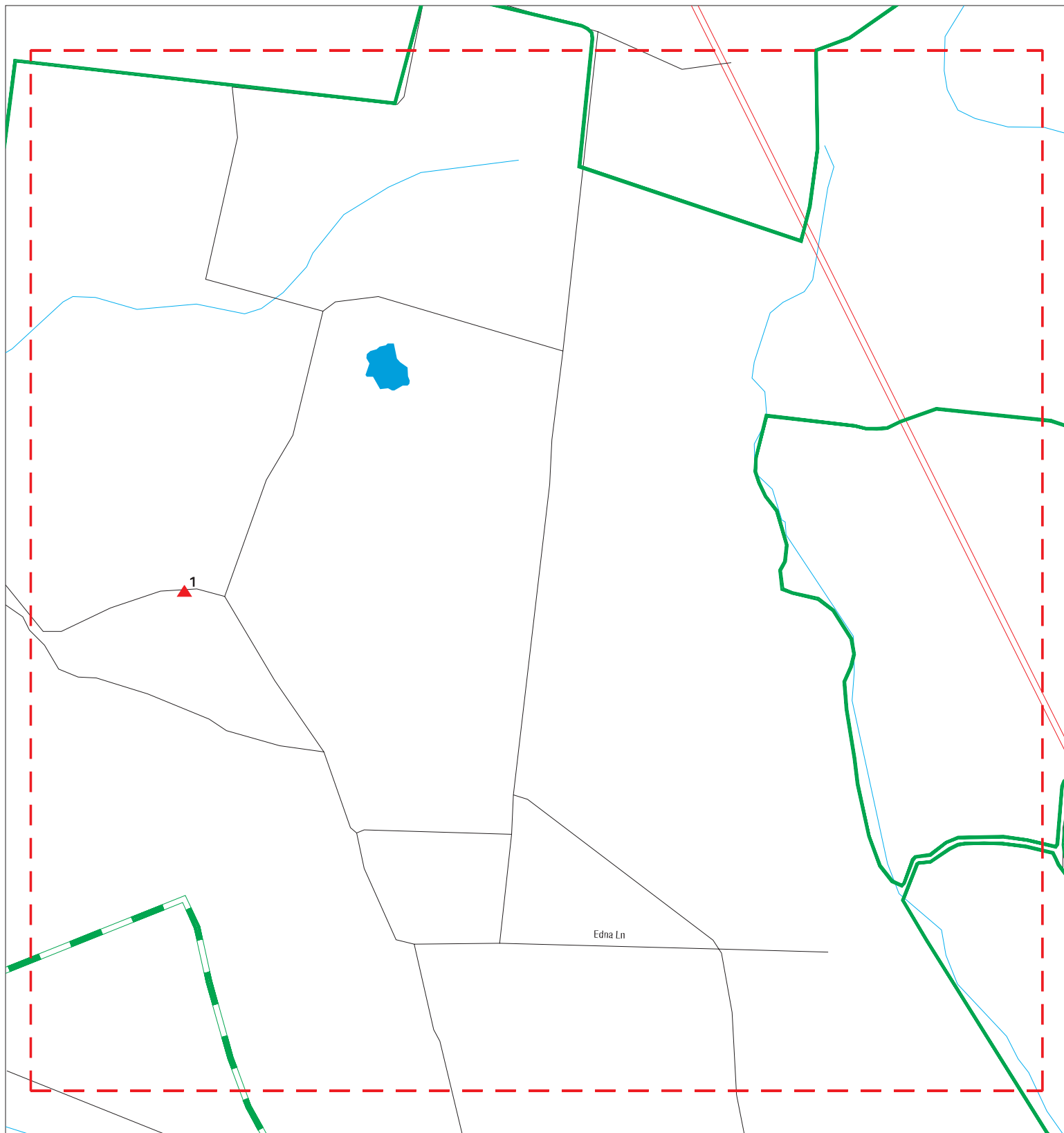
MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

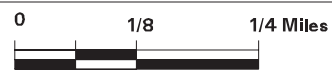
| MAP ID / FOCUS MAP | SITE NAME | ADDRESS | DATABASE ACRONYMS | DIST (ft. & mi.) DIRECTION |
|-----------------------|-----------|---------|-------------------|-------------------------------|
|-----------------------|-----------|---------|-------------------|-------------------------------|

NO MAPPED SITES FOUND

Focus Map - 10 - 6099166.2s



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



SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
CITY/STATE: Eddyville KY
ZIP: 42038

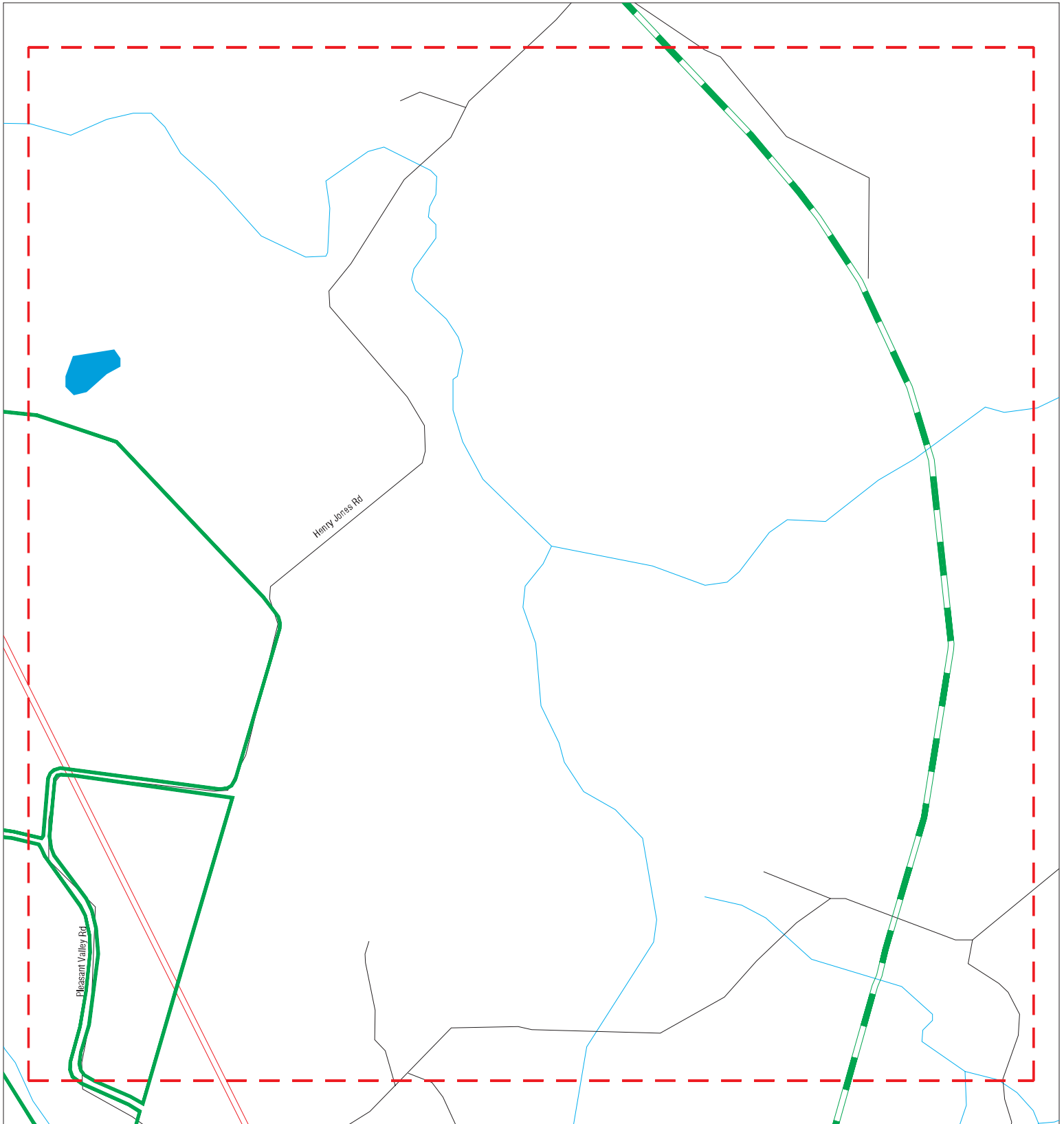
CLIENT: Stantec
CONTACT: Shane Kelley
INQUIRY #: 6099166.2s
DATE: 06/22/20

MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

| MAP ID / FOCUS MAP | SITE NAME | ADDRESS | DATABASE ACRONYMS | DIST (ft. & mi.) DIRECTION |
|-----------------------|----------------------|----------------------|-------------------|-------------------------------|
| 1 / 10 | WESTERN KENTUCKY COR | NEW BETHEL CHURCH RD | SHWS | 3074 0.582 SSE |

Focus Map - 11 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

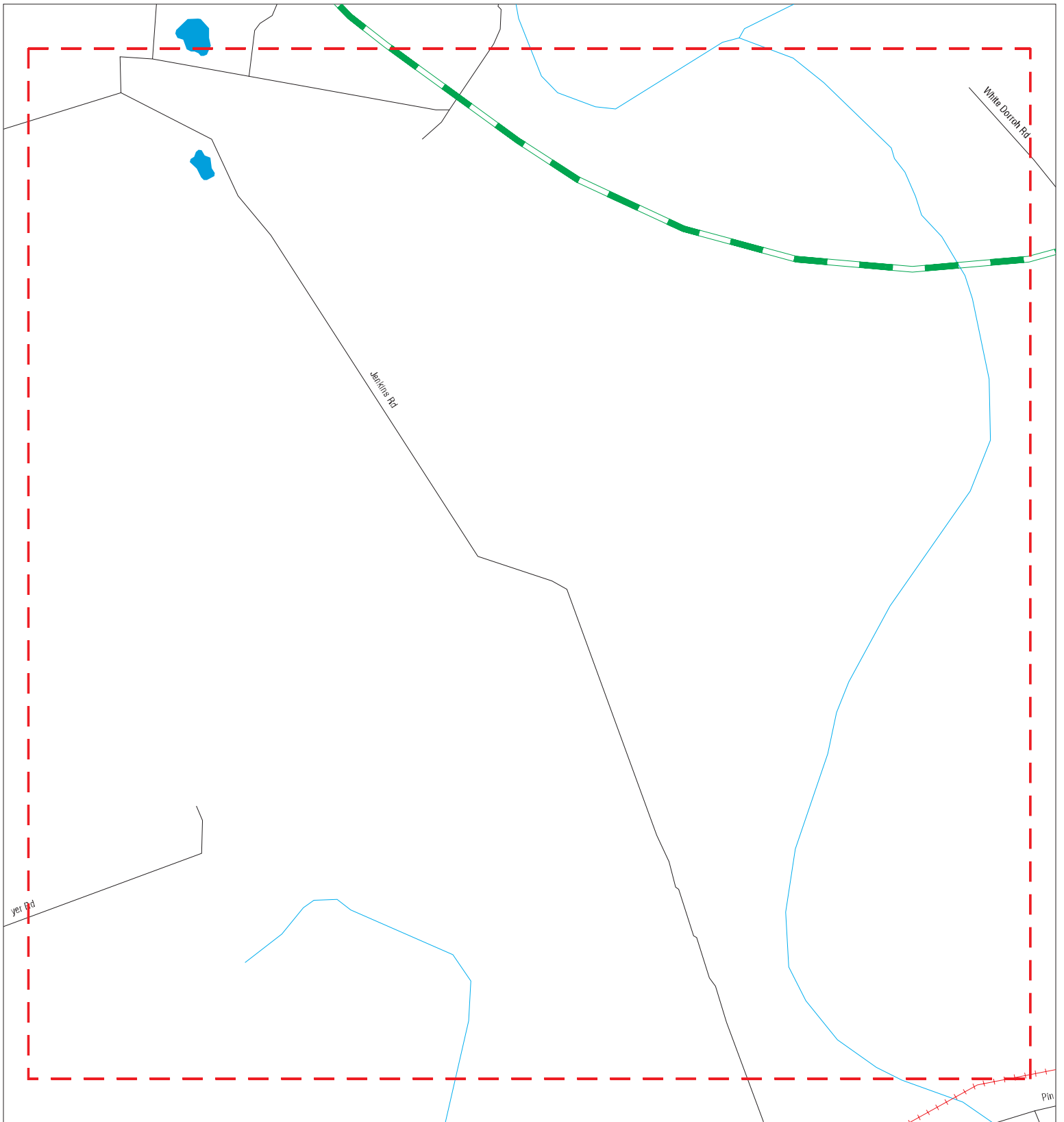
MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 12 - 6099166.2s



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



SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
CITY/STATE: Eddyville KY
ZIP: 42038

CLIENT: Stantec
CONTACT: Shane Kelley
INQUIRY #: 6099166.2s
DATE: 06/22/20

MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 13 - 6099166.2s



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



SITE NAME: Ashwood Site
 ADDRESS: 4255 US HIGHWAY 641
 CITY/STATE: Eddyville KY
 ZIP: 42038

CLIENT: Stantec
 CONTACT: Shane Kelley
 INQUIRY #: 6099166.2s
 DATE: 06/22/20

MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 14 - 6099166.2s



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



SITE NAME: Ashwood Site
 ADDRESS: 4255 US HIGHWAY 641
 CITY/STATE: Eddyville KY
 ZIP: 42038

CLIENT: Stantec
 CONTACT: Shane Kelley
 INQUIRY #: 6099166.2s
 DATE: 06/22/20

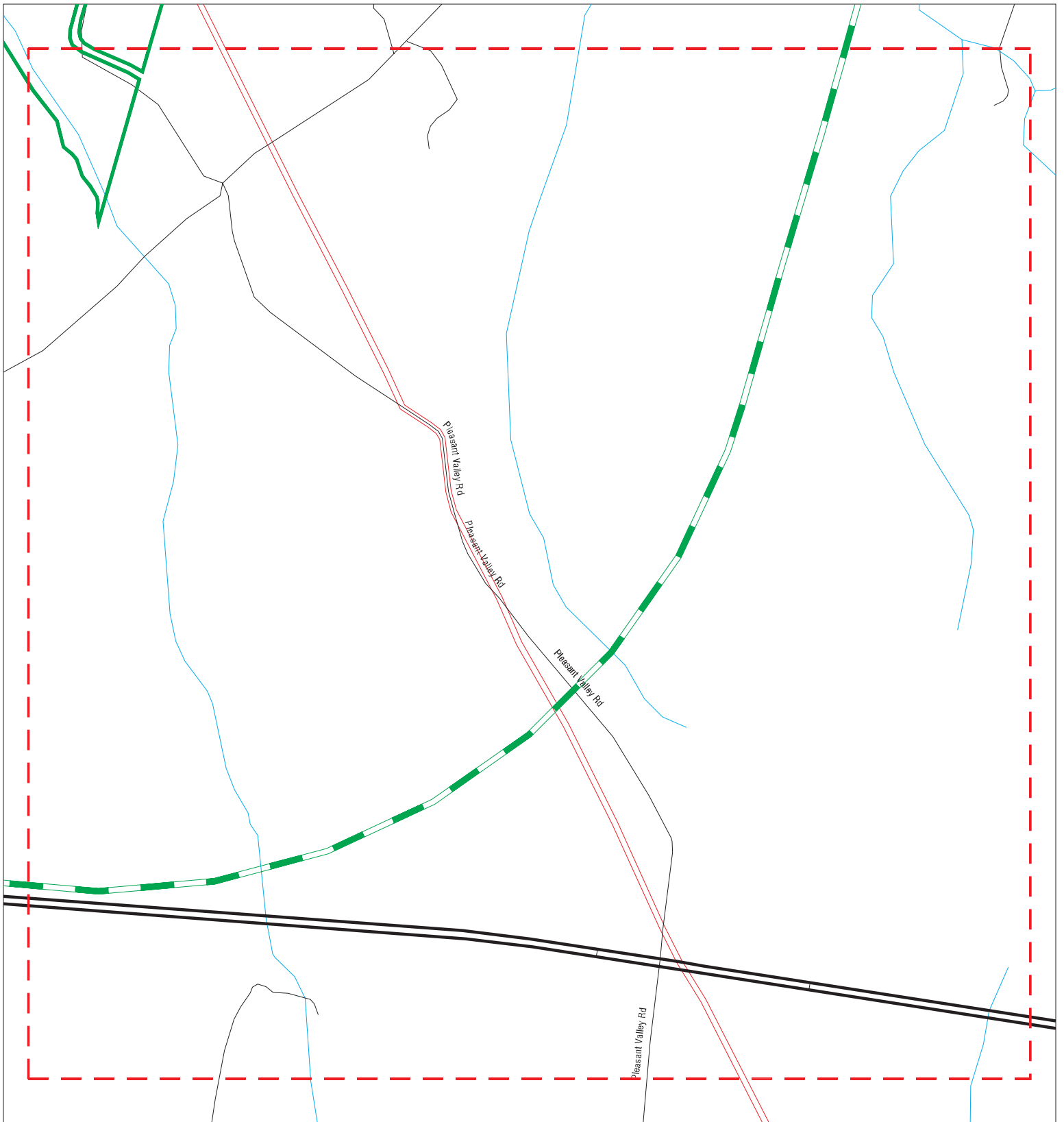
MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

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

NO MAPPED SITES FOUND

Focus Map - 15 - 6099166.2s



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



| | |
|--|--|
| <p>SITE NAME: Ashwood Site ADDRESS: 4255 US HIGHWAY 641 CITY/STATE: Eddyville KY ZIP: 42038</p> | <p>CLIENT: Stantec CONTACT: Shane Kelley INQUIRY #: 6099166.2s DATE: 06/22/20</p> |
|--|--|

MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
4255 US HIGHWAY 641
EDDYVILLE, KY 42038

| 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 WESTERN KENTUCKY CORRECTIONAL COMPLEX
SSE NEW BETHEL CHURCH RD
1/2-1 EDDYVILLE, KY 42038
0.582 mi.
3074 ft.

SHWS S118844876
N/A

Actual:
430 ft.
Focus Map:
10

SHWS:
Name: WESTERN KENTUCKY CORRECTIONAL COMPLEX
Address: NEW BETHEL CHURCH RD
City,State,Zip: EDDYVILLE, KY 42038
Facility Id: 2794
Status: **Closed**
Description: WKCC (Closed: Restored)
Closure Date: 09/12/1997
Longitude: -88.041278
Latitude: 37.138975
Subject Item County: Lyon
Sub Item Longitude: -88.037616
Sub Item Latitude: 37.131411
Subject Item Address: 374 New Bethel Church Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Fredonia, KY 42411
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 45839

Name: WESTERN KENTUCKY CORRECTIONAL COMPLEX
Address: NEW BETHEL CHURCH RD
City,State,Zip: EDDYVILLE, KY 42038
Facility Id: 2794
Status: **Closed**
Description: W. KY CORRECTIONAL COMPLEX (Closed: Restored)
Closure Date: 01/02/1997
Longitude: -88.041278
Latitude: 37.138975
Subject Item County: Lyon
Sub Item Longitude: -88.037166
Sub Item Latitude: 37.131411
Subject Item Address: 374 New Bethel Church Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Fredonia, KY 42411
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 42223

Count: 6 records

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|-----------|------------|---------------------------------------|----------------------------------|-------|---------------------|
| FREDONIA | A100452132 | WESTERN KY CORRECTIONAL COMPLEX | 374 NEW BETHEL CHURCH RD | 42411 | AST |
| FREDONIA | 1000908175 | ASHLAND PETROLEUM CO. #251-000 | HIGHWAY 641 | 42411 | RCRA NonGen / NLR |
| PRINCETON | 1000863989 | COATINGS UNLIMITED INC/BREMNER BAKERY | HIGHWAY 62 | 42445 | RCRA NonGen / NLR |
| PRINCETON | 1017431767 | PRINCETON, KY SATELLITE | 1301 HIGHWAY 62 WEST | 42445 | FINDS |
| PRINCETON | 1016269718 | COATINGS UNLIMITED INC/BREMNER BAKERY | HIGHWAY 62 | 42445 | FINDS, ECHO |
| PRINCETON | S108013422 | D & L PROPERTIES | HIGHWAY 91 , WESTERN KY. PARKWAY | 42445 | Financial Assurance |

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

Federal NPL site list

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: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: N/A |
| Date Made Active in Reports: 05/28/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 07/13/2020 |
| | 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: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: N/A |
| Date Made Active in Reports: 05/28/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 07/13/2020 |
| | 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

Federal Delisted NPL site list

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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/13/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

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: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 800-424-9346 |
| Date Made Active in Reports: 05/28/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 07/27/2020 |
| | Data Release Frequency: Quarterly |

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

| | |
|---|--|
| Date of Government Version: 03/23/2020 | Source: EPA |
| Date Data Arrived at EDR: 03/25/2020 | Telephone: 800-424-9346 |
| Date Made Active in Reports: 05/21/2020 | Last EDR Contact: 03/25/2020 |
| Number of Days to Update: 57 | Next Scheduled EDR Contact: 07/06/2020 |
| | Data Release Frequency: Quarterly |

Federal RCRA non-CORRACTS TSD facilities list

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: 03/23/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/25/2020 | Telephone: (404) 562-8651 |
| Date Made Active in Reports: 05/21/2020 | Last EDR Contact: 03/25/2020 |
| Number of Days to Update: 57 | Next Scheduled EDR Contact: 07/06/2020 |
| | Data Release Frequency: Quarterly |

Federal RCRA generators list

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: 03/23/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/25/2020 | Telephone: (404) 562-8651 |
| Date Made Active in Reports: 05/21/2020 | Last EDR Contact: 03/25/2020 |
| Number of Days to Update: 57 | Next Scheduled EDR Contact: 07/06/2020 |
| | 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: 03/23/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/25/2020 | Telephone: (404) 562-8651 |
| Date Made Active in Reports: 05/21/2020 | Last EDR Contact: 03/25/2020 |
| Number of Days to Update: 57 | Next Scheduled EDR Contact: 07/06/2020 |
| | 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: 03/23/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/25/2020 | Telephone: (404) 562-8651 |
| Date Made Active in Reports: 05/21/2020 | Last EDR Contact: 03/25/2020 |
| Number of Days to Update: 57 | Next Scheduled EDR Contact: 07/06/2020 |
| | 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: 05/15/2020 | Source: Department of the Navy |
| Date Data Arrived at EDR: 05/19/2020 | Telephone: 843-820-7326 |
| Date Made Active in Reports: 06/18/2020 | Last EDR Contact: 05/14/2020 |
| Number of Days to Update: 30 | Next Scheduled EDR Contact: 08/24/2020 |
| | 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: 02/13/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/20/2020 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 05/15/2020 | Last EDR Contact: 05/15/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 09/07/2020 |
| | 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: 02/13/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/20/2020 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 05/15/2020 | Last EDR Contact: 05/15/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 09/07/2020 |
| | 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: 03/22/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

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: 05/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 06/03/2020
Number of Days to Update: 14

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

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: 02/11/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/29/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

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: 01/01/2020
Date Data Arrived at EDR: 01/08/2020
Date Made Active in Reports: 03/13/2020
Number of Days to Update: 65

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

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: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

| | |
|---|--|
| Date of Government Version: 10/10/2019 | Source: EPA Region 4 |
| Date Data Arrived at EDR: 12/05/2019 | Telephone: 404-562-8677 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 67 | Next Scheduled EDR Contact: 08/03/2020 |
| | Data Release Frequency: Varies |

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

| | |
|---|--|
| Date of Government Version: 10/02/2019 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 214-665-6597 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | Data Release Frequency: Varies |

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: 10/01/2019 | Source: EPA, Region 5 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 312-886-7439 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/11/2019 | Source: EPA Region 10 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 206-553-2857 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/01/2019 | Source: EPA Region 1 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 617-918-1313 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/15/2019 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 12/17/2019 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/04/2019 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 415-972-3372 |
| Date Made Active in Reports: 02/27/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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 |

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

| | |
|---|--|
| Date of Government Version: 02/01/2020 | Source: FEMA |
| Date Data Arrived at EDR: 03/19/2020 | Telephone: 202-646-5797 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 03/19/2020 |
| Number of Days to Update: 82 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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: 02/04/2020 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 02/25/2020 | Telephone: 502-564-5981 |
| Date Made Active in Reports: 05/06/2020 | Last EDR Contact: 05/26/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 09/07/2020 |
| | Data Release Frequency: Quarterly |

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

| | |
|---|--|
| Date of Government Version: 02/19/2020 | Source: Office of State Fire Marshal |
| Date Data Arrived at EDR: 02/20/2020 | Telephone: 502-564-4010 |
| Date Made Active in Reports: 04/29/2020 | Last EDR Contact: 05/19/2020 |
| Number of Days to Update: 69 | Next Scheduled EDR Contact: 09/07/2020 |
| | 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: 10/10/2019 | Source: EPA Region 4 |
| Date Data Arrived at EDR: 12/05/2019 | Telephone: 404-562-9424 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 67 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/01/2019 | Source: EPA Region 5 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 312-886-6136 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/04/2019 | Source: EPA Region 9 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 415-972-3368 |
| Date Made Active in Reports: 02/27/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/11/2019 | Source: EPA Region 10 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 206-553-2857 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | Data Release Frequency: Varies |

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: 10/11/2019 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/02/2019 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 214-665-7591 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/01/2019 | Source: EPA, Region 1 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 617-918-1313 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 10/03/2019 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 303-312-6137 |
| Date Made Active in Reports: 02/14/2020 | Last EDR Contact: 05/20/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 05/19/2020 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 502-564-6716 |
| Date Made Active in Reports: 06/04/2020 | Last EDR Contact: 05/19/2020 |
| Number of Days to Update: 15 | Next Scheduled EDR Contact: 09/07/2020 |
| | 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: 05/19/2020 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 502-564-6716 |
| Date Made Active in Reports: 06/03/2020 | Last EDR Contact: 05/19/2020 |
| Number of Days to Update: 14 | Next Scheduled EDR Contact: 09/07/2020 |
| | Data Release Frequency: Varies |

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: 04/20/2009 |
| 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: 06/17/2020 |
| Number of Days to Update: 142 | Next Scheduled EDR Contact: 10/05/2020 |
| | 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: 03/23/2020 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 03/24/2020 | Telephone: 502-564-6716 |
| Date Made Active in Reports: 06/04/2020 | Last EDR Contact: 03/20/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 07/13/2020 |
| | Data Release Frequency: Varies |

State and tribal Brownfields 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: 02/10/2020 | Source: Division of Compliance Assistance |
| Date Data Arrived at EDR: 02/11/2020 | Telephone: 502-564-0323 |
| Date Made Active in Reports: 04/20/2020 | Last EDR Contact: 04/02/2020 |
| Number of Days to Update: 69 | Next Scheduled EDR Contact: 07/27/2020 |
| | 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: 06/01/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/02/2020 | Telephone: 202-566-2777 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 06/02/2020 |
| Number of Days to Update: 7 | Next Scheduled EDR Contact: 09/28/2020 |
| | 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: 09/13/2019 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 10/23/2019 | Telephone: 502-564-6716 |
| Date Made Active in Reports: 01/03/2020 | Last EDR Contact: 04/17/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 07/27/2020 |
| | 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: 04/16/2020 |
| Number of Days to Update: 52 | Next Scheduled EDR Contact: 08/10/2020 |
| | 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: 04/09/2020 |
| Number of Days to Update: 137 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 05/01/2020
Next Scheduled EDR Contact: 08/10/2020
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Location Listing

Clandestine drug lab site locations.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/08/2020
Date Made Active in Reports: 06/03/2020
Number of Days to Update: 56

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 09/07/2020
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
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: 02/27/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 02/10/2020
Date Data Arrived at EDR: 02/11/2020
Date Made Active in Reports: 04/20/2020
Number of Days to Update: 69

Source: DEP, Emergency Response
Telephone: 502-564-2380
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
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: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
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: 01/28/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
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: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Semi-Annually

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: 04/06/2020 |
| Number of Days to Update: 574 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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: 05/15/2020 |
| Number of Days to Update: 63 | Next Scheduled EDR Contact: 08/24/2020 |
| | 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: 03/23/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/24/2020 | Telephone: 202-566-1917 |
| Date Made Active in Reports: 06/18/2020 | Last EDR Contact: 03/24/2020 |
| Number of Days to Update: 86 | Next Scheduled EDR Contact: 07/06/2020 |
| | 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: 05/04/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 08/17/2020 |
| | 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: 05/08/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 08/17/2020 |
| | 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: 06/21/2017 | Telephone: 202-260-5521 |
| Date Made Active in Reports: 01/05/2018 | Last EDR Contact: 06/17/2020 |
| Number of Days to Update: 198 | Next Scheduled EDR Contact: 09/28/2020 |
| | 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: 02/05/2020 | Telephone: 202-566-0250 |
| Date Made Active in Reports: 04/24/2020 | Last EDR Contact: 05/21/2020 |
| Number of Days to Update: 79 | Next Scheduled EDR Contact: 08/31/2020 |
| | 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: 05/01/2019 | Source: EPA |
| Date Data Arrived at EDR: 10/23/2019 | Telephone: 202-564-4203 |
| Date Made Active in Reports: 01/15/2020 | Last EDR Contact: 04/21/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 703-416-0223 |
| Date Made Active in Reports: 05/28/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 09/14/2020 |
| | 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: 11/05/2019 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/20/2019 | Telephone: 202-564-8600 |
| Date Made Active in Reports: 04/17/2020 | Last EDR Contact: 04/15/2020 |
| Number of Days to Update: 149 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 202-564-6023 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 34 | Next Scheduled EDR Contact: 08/17/2020 |
| | 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: 10/09/2019 | Source: EPA |
| Date Data Arrived at EDR: 10/11/2019 | Telephone: 202-566-0500 |
| Date Made Active in Reports: 12/20/2019 | Last EDR Contact: 04/10/2020 |
| Number of Days to Update: 70 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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: 03/26/2020 |
| Number of Days to Update: 79 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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: 10/25/2019 | Source: Nuclear Regulatory Commission |
| Date Data Arrived at EDR: 10/25/2019 | Telephone: 301-415-7169 |
| Date Made Active in Reports: 01/15/2020 | Last EDR Contact: 04/10/2020 |
| Number of Days to Update: 82 | Next Scheduled EDR Contact: 08/03/2020 |
| | 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: 12/31/2018 | Source: Department of Energy |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 202-586-8719 |
| Date Made Active in Reports: 01/15/2020 | Last EDR Contact: 06/05/2020 |
| Number of Days to Update: 42 | Next Scheduled EDR Contact: 09/14/2020 |
| | 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: 06/01/2020 |
| Number of Days to Update: 251 | Next Scheduled EDR Contact: 09/14/2020 |
| | 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: 05/08/2020 |
| Number of Days to Update: 96 | Next Scheduled EDR Contact: 08/17/2020 |
| | 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: 07/01/2019
Next Scheduled EDR Contact: 07/13/2020
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: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
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: 12/31/2019
Date Data Arrived at EDR: 01/17/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 49

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
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: 04/10/2020 |
| Number of Days to Update: 546 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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: 08/08/2017 | Source: Department of Energy |
| Date Data Arrived at EDR: 09/11/2018 | Telephone: 202-586-3559 |
| Date Made Active in Reports: 09/14/2018 | Last EDR Contact: 04/29/2020 |
| Number of Days to Update: 3 | Next Scheduled EDR Contact: 08/17/2020 |
| | 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: 05/18/2020 |
| Number of Days to Update: 74 | Next Scheduled EDR Contact: 08/31/2020 |
| | Data Release Frequency: Varies |

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

| | |
|---|---|
| Date of Government Version: 04/27/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 703-603-8787 |
| Date Made Active in Reports: 05/28/2020 | Last EDR Contact: 06/03/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 07/13/2020 |
| | 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

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: 02/11/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 86

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/31/2020
Date Data Arrived at EDR: 04/01/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 50

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

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: 01/16/2018
Date Data Arrived at EDR: 02/28/2020
Date Made Active in Reports: 05/22/2020
Number of Days to Update: 84

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/07/2020
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: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
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: 03/05/2020
Date Data Arrived at EDR: 03/06/2020
Date Made Active in Reports: 05/29/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2020
Next Scheduled EDR Contact: 09/21/2020
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: 02/03/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 86

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/05/2020
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
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: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
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: 02/18/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/14/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

ASBESTOS: Asbestos Notification Listing Asbestos sites

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 06/04/2020
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 502-782-6780
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites A listing of coal ash pond site locations.

Date of Government Version: 04/17/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 05/06/2020
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/14/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing A listing of financial assurance information.

Date of Government Version: 02/17/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/29/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
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: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
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: 02/18/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/29/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

NPDES: Permitted Facility Listing A listing of permitted wastewater facilities.

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 05/06/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 502-564-3410
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
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: 12/04/2019
Date Data Arrived at EDR: 01/14/2020
Date Made Active in Reports: 03/13/2020
Number of Days to Update: 59

Source: Kentucky Geological Survey
Telephone: 859-323-0544
Last EDR Contact: 04/14/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

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: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
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: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
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: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
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: 06/08/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 07/01/2013 | Telephone: N/A |
| Date Made Active in Reports: 01/15/2014 | Last EDR Contact: 06/01/2012 |
| Number of Days to Update: 198 | 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: 01/30/2020 | Source: Department of Energy & Environmental Protection |
| Date Data Arrived at EDR: 01/30/2020 | Telephone: 860-424-3375 |
| Date Made Active in Reports: 03/09/2020 | Last EDR Contact: 05/12/2020 |
| Number of Days to Update: 39 | Next Scheduled EDR Contact: 08/24/2020 |
| | Data Release Frequency: No Update Planned |

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

| | |
|---|--|
| Date of Government Version: 12/31/2018 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 04/10/2019 | Telephone: N/A |
| Date Made Active in Reports: 05/16/2019 | Last EDR Contact: 04/10/2020 |
| Number of Days to Update: 36 | Next Scheduled EDR Contact: 07/20/2020 |
| | 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 | Source: Department of Environmental Conservation |
| Date Data Arrived at EDR: 05/01/2019 | Telephone: 518-402-8651 |
| Date Made Active in Reports: 06/21/2019 | Last EDR Contact: 04/29/2020 |
| Number of Days to Update: 51 | Next Scheduled EDR Contact: 08/10/2020 |
| | Data Release Frequency: Quarterly |

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

| | |
|---|--|
| Date of Government Version: 06/30/2018 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 07/19/2019 | Telephone: 717-783-8990 |
| Date Made Active in Reports: 09/10/2019 | Last EDR Contact: 04/02/2020 |
| Number of Days to Update: 53 | Next Scheduled EDR Contact: 07/27/2020 |
| | Data Release Frequency: Annually |

RI MANIFEST: Manifest information

Hazardous waste manifest information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
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: 06/04/2020
Next Scheduled EDR Contact: 09/21/2020
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Environmental & Public Protection Cabinet














Telephone: 502-564-6736

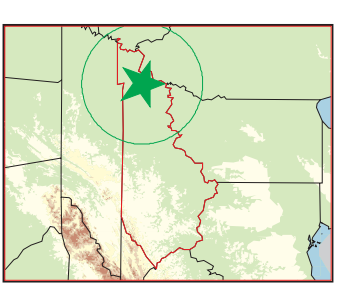
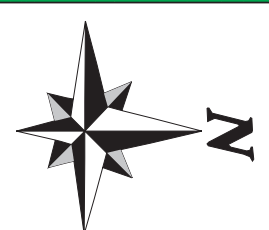
STREET AND ADDRESS INFORMATION

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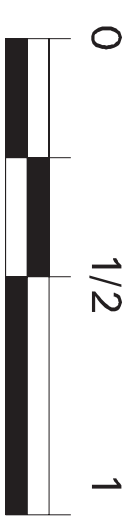
EDR DataMap® Well Search

Ashwood Site

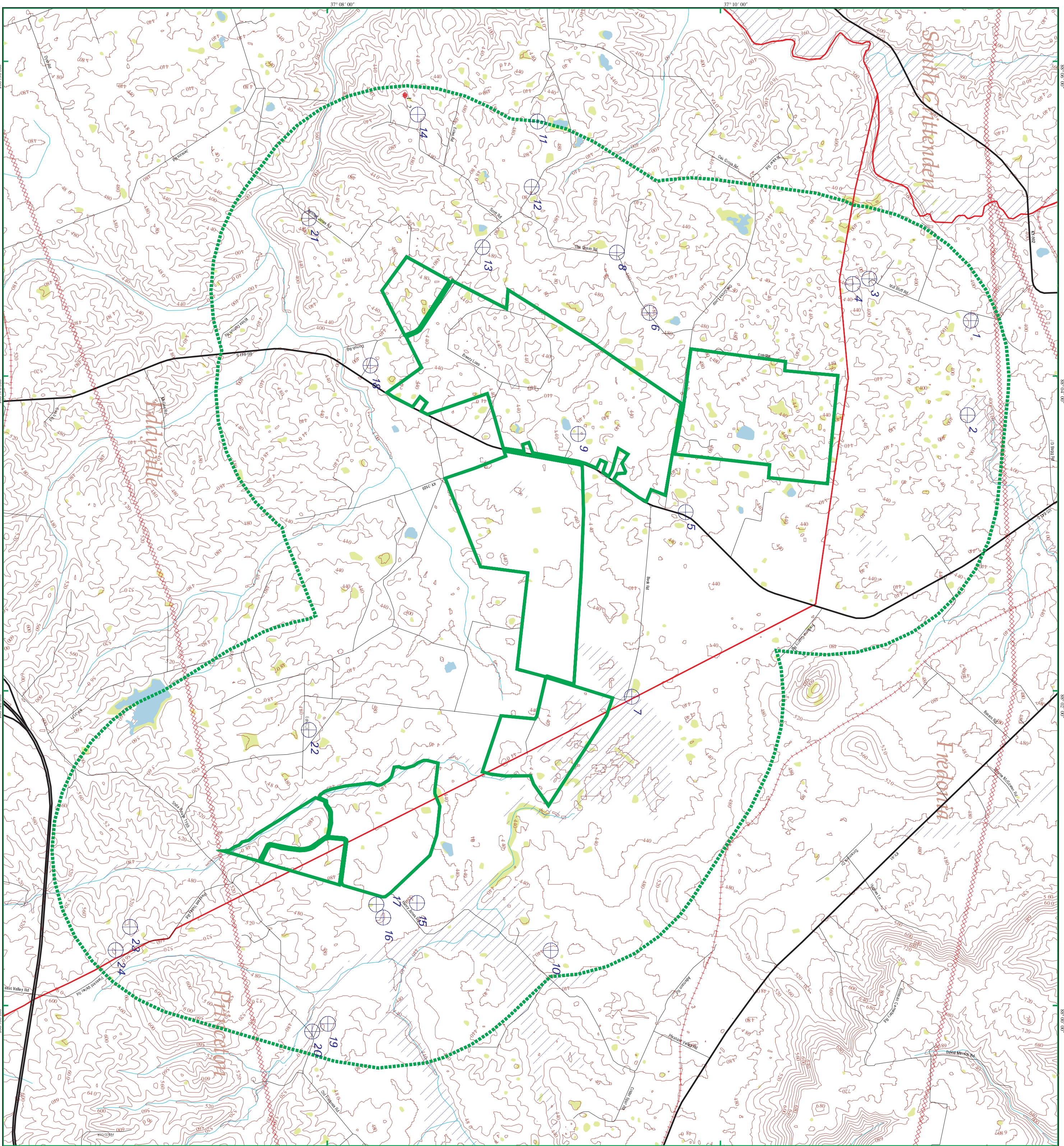
-  Listed Water Wells
-  Oil & Gas Wells
-  Study Boundary
-  Roads
-  Major Roads
-  Waterways
-  Railroads
-  Contour Lines
-  Fault Lines
-  Water
-  Superfund Sites
-  100-Yr Flood Zones
-  Wetlands



Eddyville, KY



Scale in Miles



Ashwood Site

Eddyville, KY 42038

Inquiry Number: 6099166.2w

June 22, 2020

EDR DataMap™ Well Search Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
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www.edrnet.com

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

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GEOCHECK VERSION 2.1 SUMMARY

FEDERAL DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> |
|-------------------|--------------------|
| 1 | USGS40000380697 |
| 3 | USGS40000380630 |
| 4 | USGS40000380616 |
| 5 | USGS40000380511 |
| 6 | USGS40000380481 |
| 7 | USGS40000380475 |
| 7 | USGS40000380470 |
| 8 | USGS40000380458 |
| 12 | USGS40000380400 |
| 13 | USGS40000380361 |
| 15 | USGS40000380302 |
| 20 | USGS40000380223 |
| 21 | USGS40000380218 |
| 22 | USGS40000380217 |

STATE WATER WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> |
|-------------------|--------------------|
| 2 | KY6000000025860 |
| 4 | KY6000000050583 |
| 4 | KY6000000051012 |
| 8 | KY6000000052653 |
| 8 | KY6000000048635 |
| 9 | KY6000000044276 |
| 10 | KY6000000056828 |
| 11 | KY6000000057055 |
| 14 | KY6000000039430 |
| 15 | KY6000000046726 |
| 16 | KY6000000039428 |
| 17 | KY6000000039427 |
| 17 | KY6000000043980 |
| 18 | KY6000000026194 |
| 19 | KY6000000056793 |
| 20 | KY6000000047468 |
| 23 | KY6000000043669 |
| 24 | KY6000000047240 |

STATE OIL/GAS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> |
|-------------------|--------------------|
| 1 | KYOG12000113551 |
| 2 | KYOG12000114211 |

PUBLIC WATER SUPPLY SYSTEM INFORMATION

NO WELLS FOUND

USGS TOPOGRAPHIC MAP(S)

37087-A8 PRINCETON WEST, KY
37087-B8 CRIDER, KY
37088-A1 EDDYVILLE, KY

GEOCHECK VERSION 2.1 SUMMARY

USGS TOPOGRAPHIC MAP(S)

37088-B1 FREDONIA, KY

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 42445

Number of sites tested: 5

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 1.260 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

Federal Area Radon Information for Zip Code: 42038

Number of sites tested: 2

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 3.450 pCi/L | 50% | 50% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

Federal Area Radon Information for Zip Code: 42445

Number of sites tested: 5

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 1.260 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

Federal EPA Radon Zone for CALDWELL County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CALDWELL COUNTY, KY

Number of sites tested: 5

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 1.260 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

Federal EPA Radon Zone for LYON County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

GEOCHECK VERSION 2.1 SUMMARY

AREA RADON INFORMATION

Federal Area Radon Information for LYON COUNTY, KY

Number of sites tested: 2

| <u>Area</u> | <u>Average Activity</u> | <u>% <4 pCi/L</u> | <u>% 4-20 pCi/L</u> | <u>% >20 pCi/L</u> |
|-------------------------|-------------------------|----------------------|---------------------|-----------------------|
| Living Area - 1st Floor | 3.450 pCi/L | 50% | 50% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 3.300 pCi/L | 100% | 0% | 0% |

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Water Well Information:

| | | | |
|------------------------|------------------------------------|------------------------------|--------------|
| Map ID: | 1 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0006 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | Not Reported |
| Well Depth: | 400 | Well Depth Units: | ft |
| Well Hole Depth: | 400 | Well Hole Depth Units: | ft |

| | | | |
|------------------------|------------------------------------|------------------------------|--------------|
| Map ID: | 3 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0013 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 1964 |
| Well Depth: | 145 | Well Depth Units: | ft |
| Well Hole Depth: | 145 | Well Hole Depth Units: | ft |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1973 |
| Feet below surface: | 55 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

| | | | |
|------------------------|------------------------------------|------------------------------|---------------------|
| Map ID: | 4 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0014 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | St. Louis Limestone |
| Aquifer Type: | Not Reported | Construction Date: | Not Reported |
| Well Depth: | 135 | Well Depth Units: | ft |
| Well Hole Depth: | 135 | Well Hole Depth Units: | ft |

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

| | | | |
|---|------------------------------------|------------------------------|---------------------|
| Map ID: | 5 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0026 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 1960 |
| Well Depth: | 135 | Well Depth Units: | ft |
| Well Hole Depth: | 135 | Well Hole Depth Units: | ft |
| Ground water levels,Number of Measurements: | | 1 | Level reading date: |
| Feet below surface: | 106.1 | | 1974-02-12 |
| Note: | Not Reported | Feet to sea level: | Not Reported |

| | | | |
|------------------------|------------------------------------|------------------------------|--------------|
| Map ID: | 6 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0011 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 1964 |
| Well Depth: | 245 | Well Depth Units: | ft |
| Well Hole Depth: | 245 | Well Hole Depth Units: | ft |

| | | | |
|---|------------------------------------|------------------------------|---------------------|
| Map ID: | 7 | | |
| Organization ID: | USGS-KY | | |
| Organization Name: | USGS Kentucky Water Science Center | | |
| Monitor Location: | I07B0023 | Type: | Well |
| Description: | Not Reported | HUC: | 05130205 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | Not Reported |
| Well Depth: | 104 | Well Depth Units: | ft |
| Well Hole Depth: | 104 | Well Hole Depth Units: | ft |
| Ground water levels,Number of Measurements: | | 1 | Level reading date: |
| Feet below surface: | 50 | | 1974-02-12 |
| Note: | Not Reported | Feet to sea level: | Not Reported |

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Map ID: 7
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0022 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: Not Reported
 Well Depth: 45 Well Depth Units: ft
 Well Hole Depth: 45 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 1 Level reading date: 1974-02-11
 Feet below surface: 30.4 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 8
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0030 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: St. Louis Limestone
 Aquifer Type: Not Reported Construction Date: 1973
 Well Depth: 207 Well Depth Units: ft
 Well Hole Depth: 207 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 1 Level reading date: 1974-03-26
 Feet below surface: 121.8 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 12
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0009 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: 1971
 Well Depth: 200 Well Depth Units: ft
 Well Hole Depth: 200 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 1 Level reading date: 1974-01-23
 Feet below surface: 94.2 Feet to sea level: Not Reported
 Note: Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID: 13
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0008 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: 1967
 Well Depth: 250 Well Depth Units: ft
 Well Hole Depth: 250 Well Hole Depth Units: ft

Map ID: 15
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0028 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: St. Louis Limestone
 Aquifer Type: Not Reported Construction Date: 1946
 Well Depth: 200 Well Depth Units: ft
 Well Hole Depth: 200 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 1 Level reading date: 1973
 Feet below surface: 60 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 20
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I08A0019 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: 1963
 Well Depth: 90 Well Depth Units: ft
 Well Hole Depth: 90 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 2 Level reading date: 1974-01-12
 Feet below surface: 14.9 Feet to sea level: Not Reported
 Note: Not Reported

Level reading date: 1974-01-12 Feet below surface: 14.9
 Feet to sea level: Not Reported Note: Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID: 21
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0025 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: Not Reported
 Well Depth: 205 Well Depth Units: ft
 Well Hole Depth: 205 Well Hole Depth Units: ft

Map ID: 22
 Organization ID: USGS-KY
 Organization Name: USGS Kentucky Water Science Center
 Monitor Location: I07B0027 Type: Well
 Description: Not Reported HUC: 05130205
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Not Reported Formation Type: Not Reported
 Aquifer Type: Not Reported Construction Date: Not Reported
 Well Depth: 196 Well Depth Units: ft
 Well Hole Depth: 196 Well Hole Depth Units: ft

Ground water levels,Number of Measurements: 1 Level reading date: 1974
 Feet below surface: 100 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 2
 Fid: 25859 Akgwa: 45852
 Altid: Not Reported Latdecimal: 37.187549
 Longdecima: -88.062521 County: Crittenden
 Quadname: Fredonia Physiograp: Mississippian Plateau
 Type: W Surfaceele: 549
 Usage: Heat Pump - Open Loop Enddate: 06-AUG-96
 Site id: KY6000000025860

Map ID: 4
 Fid: 50582 Akgwa: 40005202
 Altid: Not Reported Latdecimal: 37.17783
 Longdecima: -88.076408 County: Caldwell
 Quadname: Fredonia Physiograp: Western Pennyroyal
 Type: W Surfaceele: 0
 Usage: Domestic - Single Household Enddate: Not Reported
 Site id: KY6000000050583

Map ID: 4
 Fid: 51011 Akgwa: 40005638
 Altid: 371040088043501 Latdecimal: 37.177829
 Longdecima: -88.07641 County: Caldwell

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

| | | | |
|-----------|-----------------|-------------|--------------------|
| Quadname: | Fredonia | Physiograp: | Western Pennyroyal |
| Type: | W | Surfaceele: | 440 |
| Usage: | UNKNOWN | Enddate: | Not Reported |
| Site id: | KY6000000051012 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 8 | Akgwa: | 40007301 |
| Fid: | 52652 | Latdecimal: | 37.157833 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.079742 | Physiograp: | Western Pennyroyal |
| Quadname: | Fredonia | Surfaceele: | 0 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000052653 | | |

| | | | |
|-------------|-----------------|-------------|--------------------|
| Map ID: | 8 | Akgwa: | 40003217 |
| Fid: | 48634 | Latdecimal: | 37.157829 |
| Altid: | 370928088044701 | County: | Lyon |
| Longdecima: | -88.079744 | Physiograp: | Western Pennyroyal |
| Quadname: | Fredonia | Surfaceele: | 490 |
| Type: | W | Enddate: | Not Reported |
| Usage: | UNKNOWN | | |
| Site id: | KY6000000048635 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 9 | Akgwa: | 30008219 |
| Fid: | 44275 | Latdecimal: | 37.154552 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.060524 | Physiograp: | Western Pennyroyal |
| Quadname: | Fredonia | Surfaceele: | 0 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000044276 | | |

| | | | |
|-------------|----------------------------------|-------------|--------------|
| Map ID: | 10 | Akgwa: | 60002065 |
| Fid: | 56827 | Latdecimal: | 37.152222 |
| Altid: | Not Reported | County: | Caldwell |
| Longdecima: | -88.005833 | Physiograp: | Not Reported |
| Quadname: | Fredonia | Surfaceele: | 0 |
| Type: | W | Enddate: | 01-JAN-64 |
| Usage: | Agriculture - Livestock Watering | | |
| Site id: | KY6000000056828 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------|
| Map ID: | 11 | Akgwa: | 60002293 |
| Fid: | 57054 | Latdecimal: | 37.151111 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.093611 | Physiograp: | Not Reported |
| Quadname: | Fredonia | Surfaceele: | 0 |
| Type: | W | Enddate: | 01-JAN-66 |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000057055 | | |

Map ID: 14

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

| | | | |
|-------------|-----------------------------|-------------|------------------|
| Fid: | 39429 | Akgwa: | 67015 |
| Altid: | Not Reported | Latdecimal: | 37.140949 |
| Longdecima: | -88.094354 | County: | Lyon |
| Quadname: | Fredonia | Physiograp: | Jackson Purchase |
| Type: | W | Surfaceele: | 495 |
| Usage: | Domestic - Single Household | Enddate: | 01-JAN-87 |
| Site id: | KY6000000039430 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 15 | Akgwa: | 40001277 |
| Fid: | 46725 | Latdecimal: | 37.140888 |
| Altid: | 370827088003901 | County: | Caldwell |
| Longdecima: | -88.010857 | Physiograp: | Western Pennyroyal |
| Quadname: | Fredonia | Surfaceele: | 453 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000046726 | | |

| | | | |
|-------------|-----------------|-------------|-----------------------|
| Map ID: | 16 | Akgwa: | 67013 |
| Fid: | 39427 | Latdecimal: | 37.13802 |
| Altid: | Not Reported | County: | Caldwell |
| Longdecima: | -88.00931 | Physiograp: | Mississippian Plateau |
| Quadname: | Fredonia | Surfaceele: | 460 |
| Type: | W | Enddate: | 01-JAN-77 |
| Usage: | Unused | | |
| Site id: | KY6000000039428 | | |

| | | | |
|-------------|-----------------|-------------|-----------------------|
| Map ID: | 17 | Akgwa: | 67012 |
| Fid: | 39426 | Latdecimal: | 37.13774 |
| Altid: | Not Reported | County: | Caldwell |
| Longdecima: | -88.01069 | Physiograp: | Mississippian Plateau |
| Quadname: | Fredonia | Surfaceele: | 475 |
| Type: | W | Enddate: | 01-JAN-46 |
| Usage: | Unused | | |
| Site id: | KY6000000039427 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 17 | Akgwa: | 30007530 |
| Fid: | 43979 | Latdecimal: | 37.137054 |
| Altid: | Not Reported | County: | Caldwell |
| Longdecima: | -88.011421 | Physiograp: | Western Pennyroyal |
| Quadname: | Fredonia | Surfaceele: | 0 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000043980 | | |

| | | | |
|-------------|-----------------------|-------------|-----------------------|
| Map ID: | 18 | Akgwa: | 46221 |
| Fid: | 26193 | Latdecimal: | 37.13694444 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.06777778 | Physiograp: | Mississippian Plateau |
| Quadname: | Fredonia | Surfaceele: | 430 |
| Type: | W | Enddate: | 07-AUG-96 |
| Usage: | Heat Pump - Open Loop | | |
| Site id: | KY6000000026194 | | |

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

| | | | |
|-------------|-----------------------------|-------------|--------------|
| Fid: | 56792 | Akgwa: | 60002029 |
| Altid: | Not Reported | Latdecimal: | 37.133333 |
| Longdecima: | -87.998056 | County: | Caldwell |
| Quadname: | Crider | Physiograp: | Not Reported |
| Type: | W | Surfaceele: | 0 |
| Usage: | Domestic - Single Household | Enddate: | 01-JAN-64 |
| Site id: | KY6000000056793 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 20 | Akgwa: | 40002034 |
| Fid: | 47467 | Latdecimal: | 37.131992 |
| Altid: | 370755087595001 | County: | Caldwell |
| Longdecima: | -87.997246 | Physiograp: | Western Pennyroyal |
| Quadname: | Crider | Surfaceele: | 485 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000047468 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 23 | Akgwa: | 30006826 |
| Fid: | 43668 | Latdecimal: | 37.116554 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.008324 | Physiograp: | Western Pennyroyal |
| Quadname: | Eddyville | Surfaceele: | 0 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000043669 | | |

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Map ID: | 24 | Akgwa: | 40001802 |
| Fid: | 47239 | Latdecimal: | 37.11533 |
| Altid: | Not Reported | County: | Lyon |
| Longdecima: | -88.005859 | Physiograp: | Western Pennyroyal |
| Quadname: | Eddyville | Surfaceele: | 0 |
| Type: | W | Enddate: | Not Reported |
| Usage: | Domestic - Single Household | | |
| Site id: | KY6000000047240 | | |

| | | | |
|------------------------------|-------------------------|------------------------------|-----------------------|
| Map ID: | 1 | KGS #: | 131779 |
| API #: | 16143000020000 | Original Farm/Lease Name: | DUNN, KYLE |
| Well Elevation: | 484 | Original Well #: | 10-1 |
| Original Operator: | APPROACH OPERATING, LLC | Formation: | 330MSSP |
| Total Well Depth (ft): | 411 | Init Open or Potential Flow: | Not Reported |
| Deepest Formation: | 000 | Bore Type: | Conventional Vertical |
| Original API Classification: | Unclassified | Completion Date: | 07-JAN-07 |
| How Completed: | Dry and abandoned | Documentation on Plug: | PA |
| Plug Date: | 13-SEP-12 | Cuttings Call #: | 0 |
| Core Call #: | Not Reported | Permit #: | 100276 |
| Log on File: | Not Reported | | |
| URL: | Not Reported | | |

| | | | |
|-----------------|----------------|---------------------------|------------|
| Map ID: | 2 | KGS #: | 132439 |
| API #: | 16143000040000 | Original Farm/Lease Name: | DUNN, KYLE |
| Well Elevation: | 484 | | |

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

| | | | |
|------------------------------|-------------------------|------------------------------|-----------------------|
| Original Operator: | APPROACH OPERATING, LLC | Original Well #: | 10-1X |
| Total Well Depth (ft): | 1960 | Formation: | 000 |
| Deepest Formation: | 341NALB | Init Open or Potential Flow: | Not Reported |
| Original API Classification: | Unclassified | Bore Type: | Conventional Vertical |
| How Completed: | Gas producer | Completion Date: | Not Reported |
| Plug Date: | Not Reported | Documentation on Plug: | Not Reported |
| Core Call #: | Not Reported | Cuttings Call #: | 0 |
| Log on File: | Not Reported | Permit #: | 100909 |
| URL: | Not Reported | | |

KENTUCKY GOVERNMENT WELL RECORDS SEARCHED

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

State Wetlands Data: Wetland Inventory

Source: Environmental & Public Protection Cabinet

Telephone: 502-564-6736

Kentucky Water Well Records Database

Source: Kentucky Geological Survey

Telephone: 859-257-5500

Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

Oil and Gas Well Locations

Source: Kentucky Geological Survey

Telephone: 859-257-5500

Oil and gas well locations in the state of Kentucky

STREET AND ADDRESS INFORMATION

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ASHWOOD SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Appendix E Historical Records
Report Date

Appendix E HISTORICAL RECORDS



Ashwood Site

4255 US HIGHWAY 641

Eddyville, KY 42038

Inquiry Number: 6099166.4

June 22, 2020

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

06/22/20

Site Name:

Ashwood Site
4255 US HIGHWAY 641
Eddyville, KY 42038
EDR Inquiry # 6099166.4

Client Name:

Stantec
10509 Timberwood Circle Suite 100
Louisville, KY 40223-0000
Contact: Shane Kelley



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

| | | | |
|-----------------|--------------|----------------------|----------------------------|
| P.O.# | NA | Latitude: | 37.150146 37° 9' 1" North |
| Project: | Ashwood Site | Longitude: | -88.051335 -88° 3' 5" West |
| | | UTM Zone: | Zone 16 North |
| | | UTM X Meters: | 406639.17 |
| | | UTM Y Meters: | 4112046.08 |
| | | Elevation: | 430.00' above sea level |

Maps Provided:

2013
1973
1967
1955
1954
1931
1928

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Eddyville
2013
7.5-minute, 24000



Fredonia
2013
7.5-minute, 24000



Crider
2013
7.5-minute, 24000



Princeton West
2013
7.5-minute, 24000

1973 Source Sheets



Eddyville
1973
7.5-minute, 24000
Aerial Photo Revised 1966

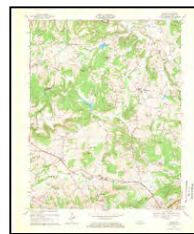
1967 Source Sheets



Eddyville
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Princeton West
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Crider
1967
7.5-minute, 24000
Aerial Photo Revised 1967

1955 Source Sheets



Eddyville
1955
15-minute, 62500
Aerial Photo Revised 1955

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1954 Source Sheets



Fredonia
1954
7.5-minute, 24000
Aerial Photo Revised 1952



Eddyville
1954
7.5-minute, 24000
Aerial Photo Revised 1952



Crider
1954
7.5-minute, 24000
Aerial Photo Revised 1952



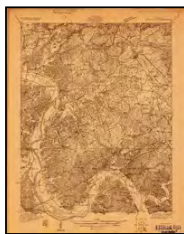
Princeton West
1954
7.5-minute, 24000
Aerial Photo Revised 1952

1931 Source Sheets

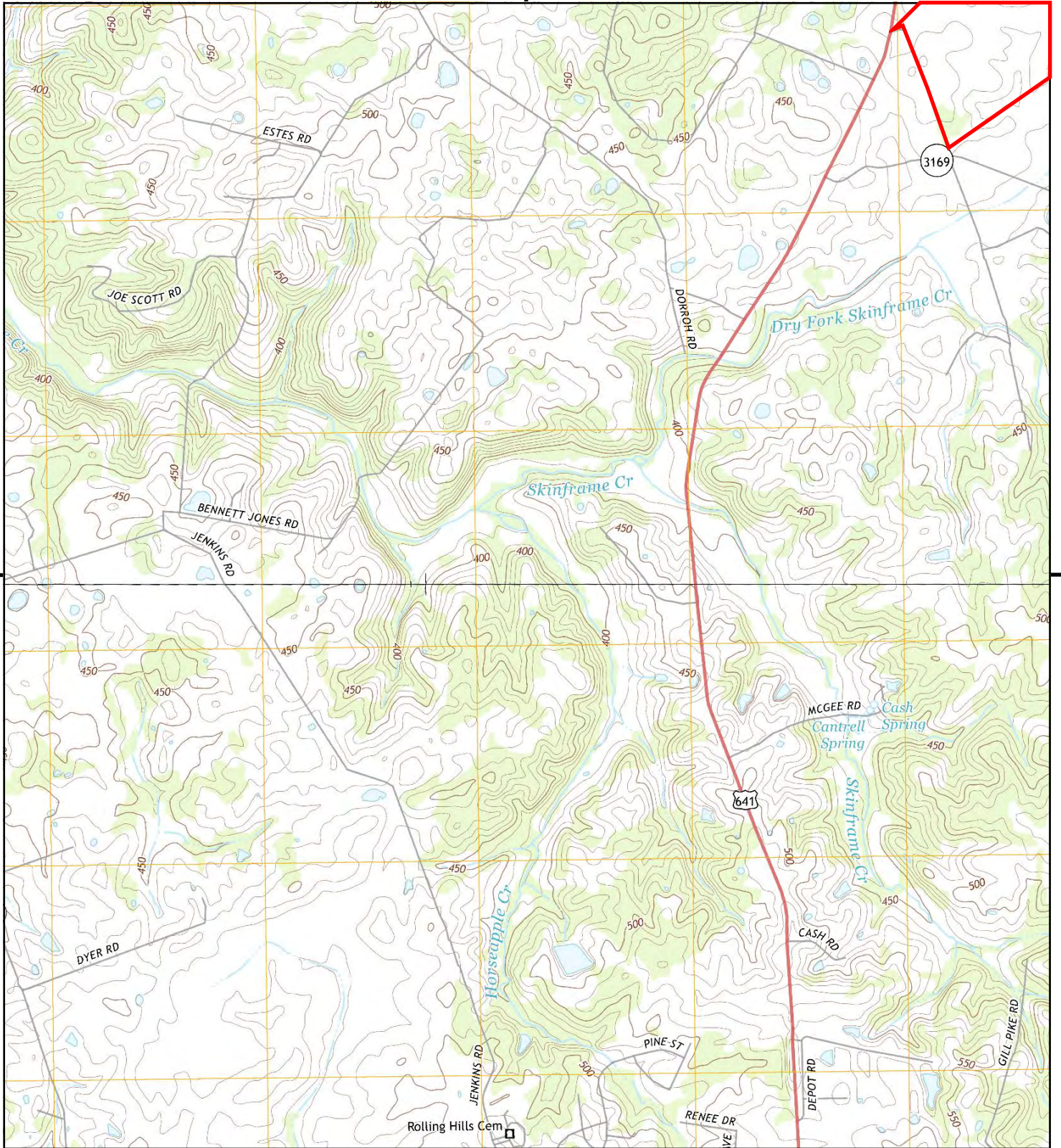


Eddyville
1931
15-minute, 62500

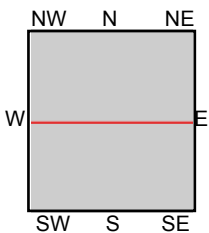
1928 Source Sheets



Eddyville
1928
15-minute, 48000



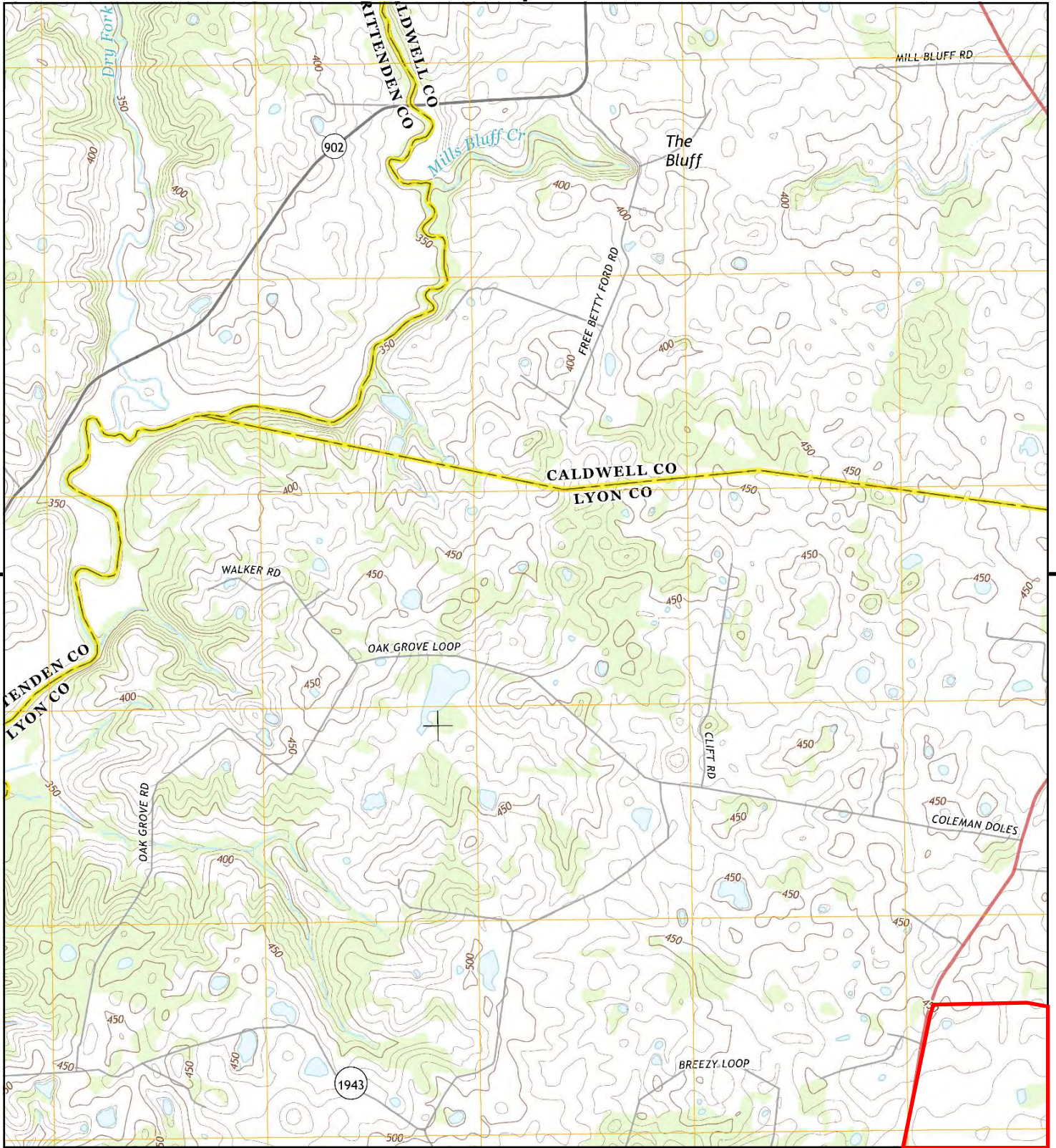
This report includes information from the following map sheet(s).



TP, Fredonia, 2013, 7.5-minute
S, Eddyville, 2013, 7.5-minute

SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
Eddyville, KY 42038
CLIENT: Stantec





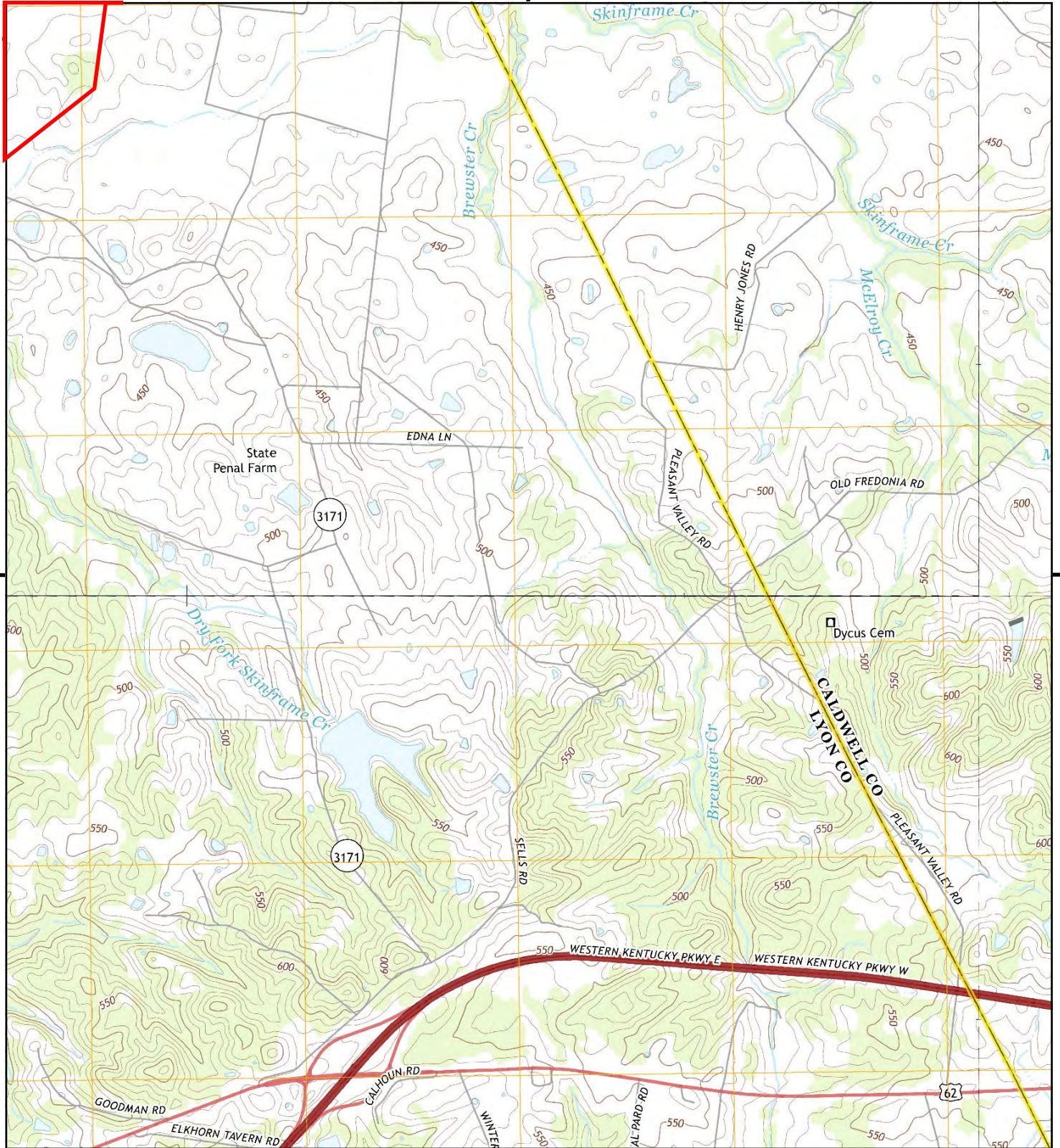
This report includes information from the following map sheet(s).



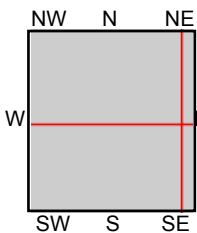
TP, Fredonia, 2013, 7.5-minute

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ADDRESS: 4255 US HIGHWAY 641
Eddyville, KY 42038
CLIENT: Stantec





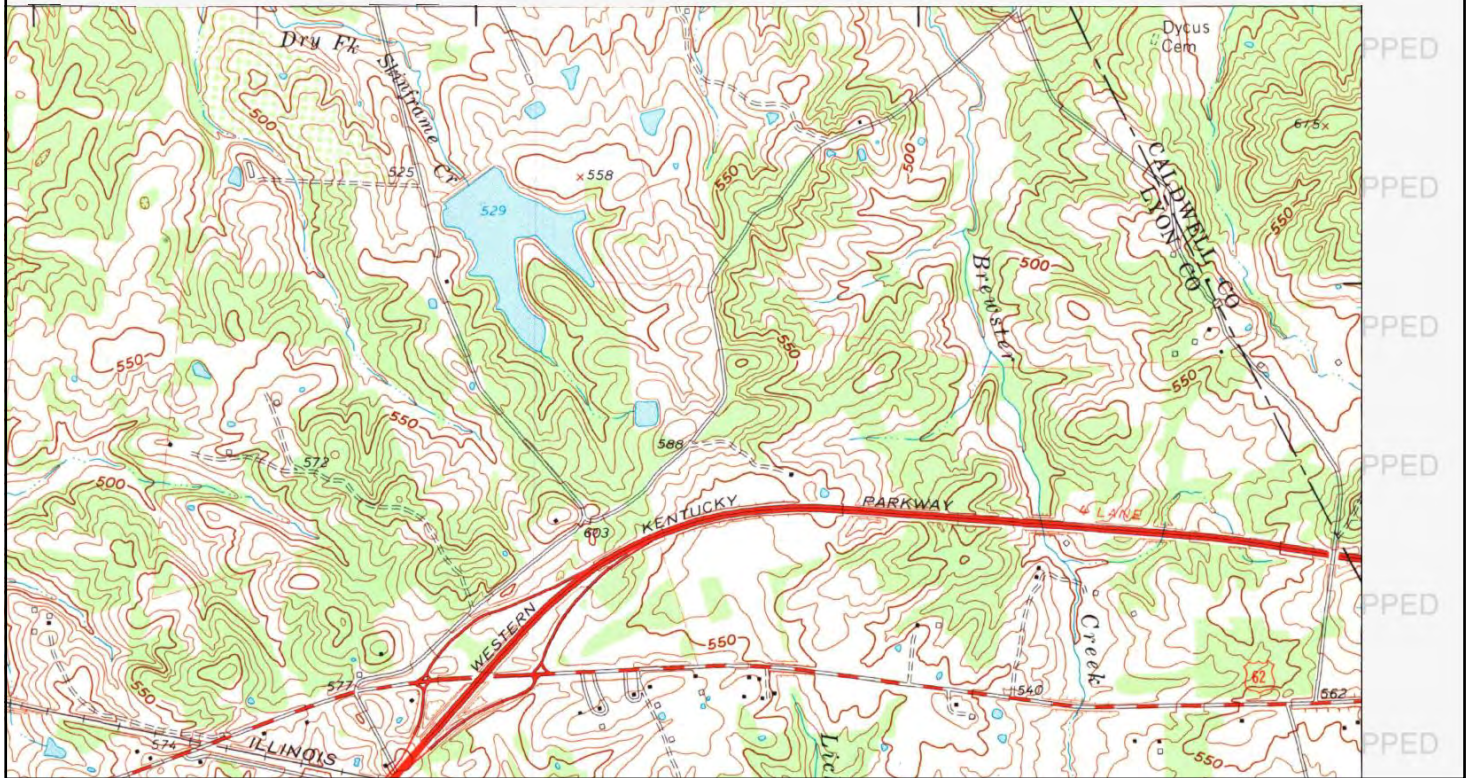
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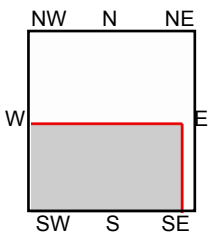
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ADDRESS: 4255 US HIGHWAY 641
 Eddyville, KY 42038
CLIENT: Stantec





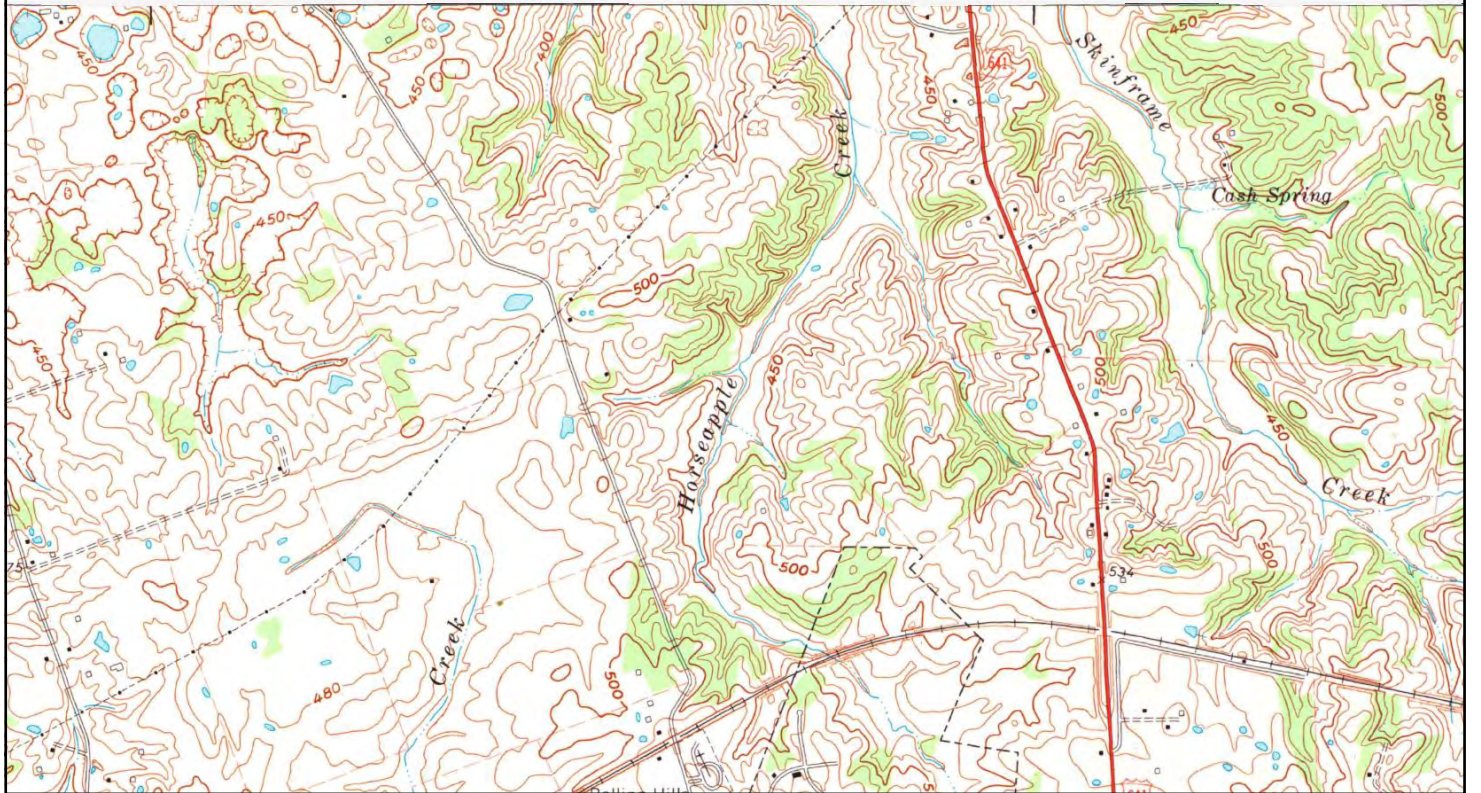
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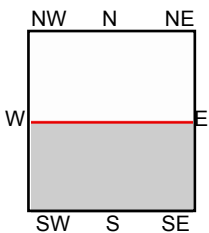
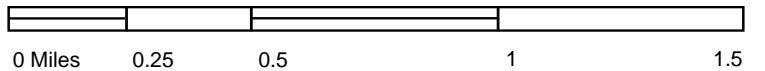
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CLIENT: Stantec





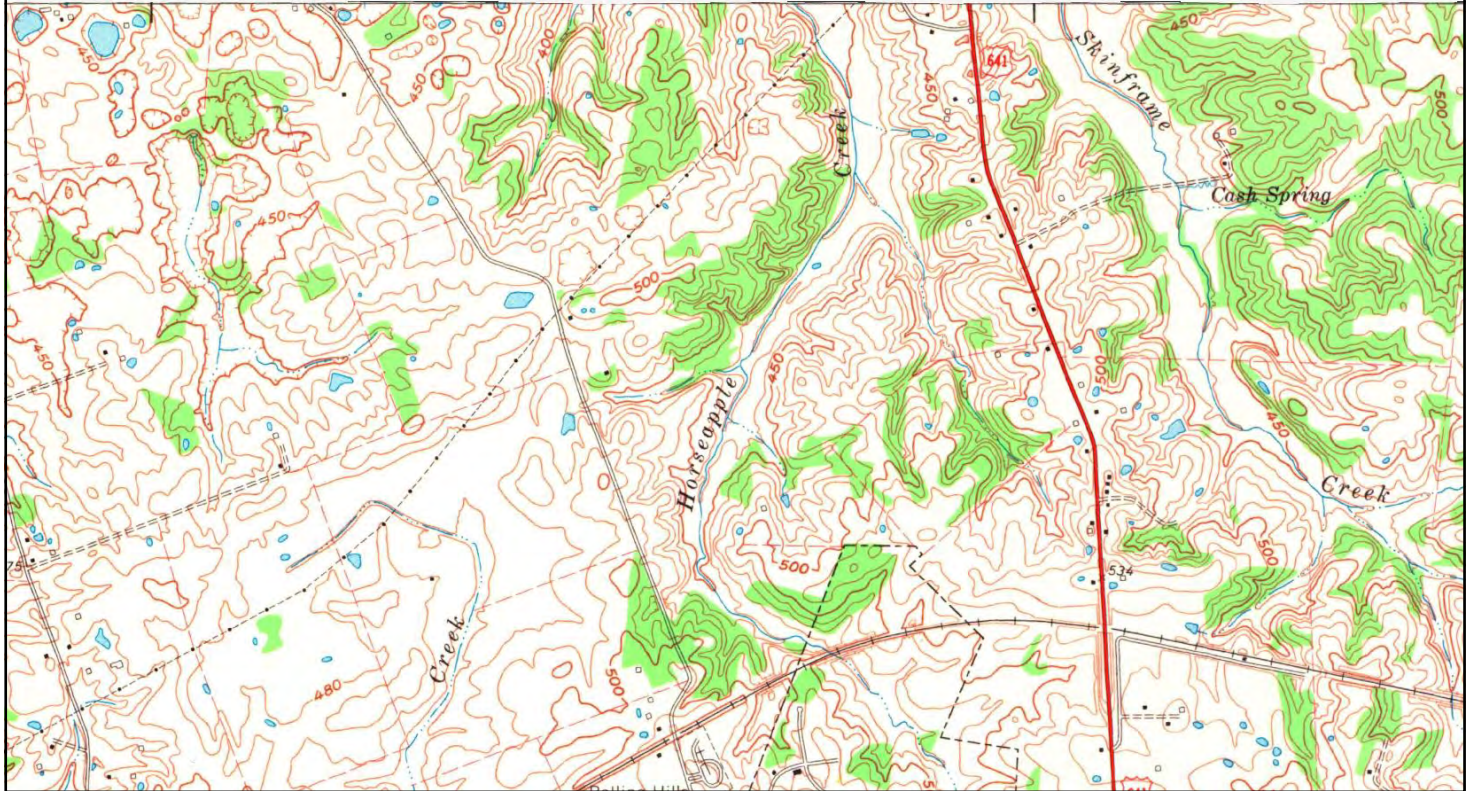
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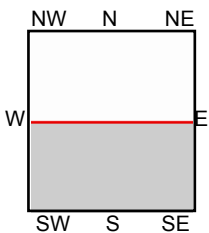
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 Eddyville, KY 42038
CLIENT: Stantec





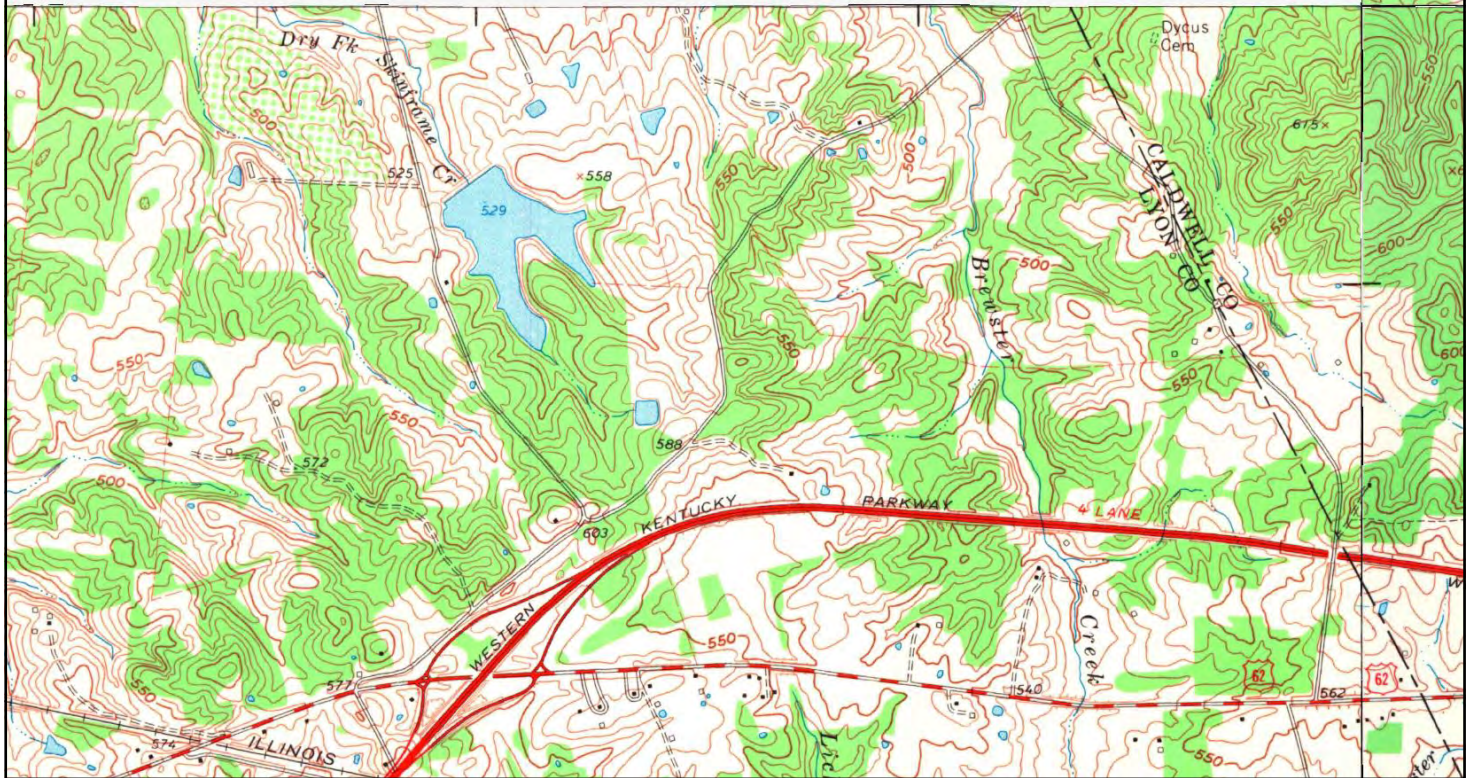
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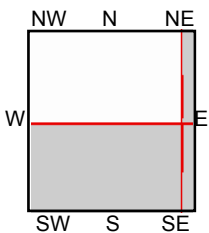
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CLIENT: Stantec





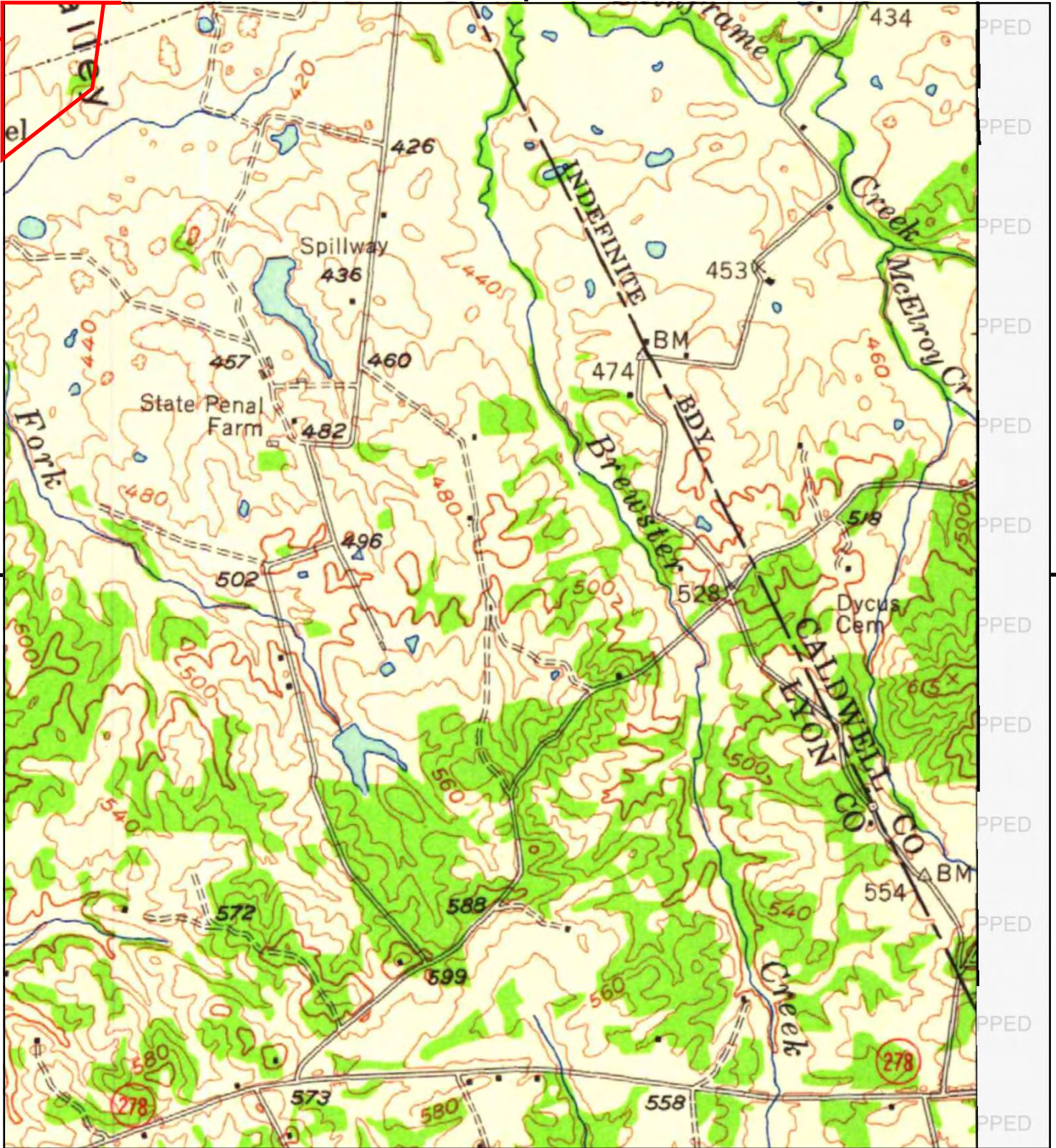
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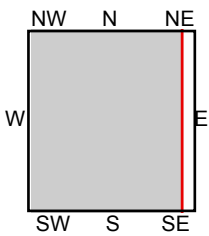
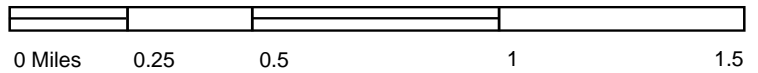
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 Eddyville, KY 42038
CLIENT: Stantec





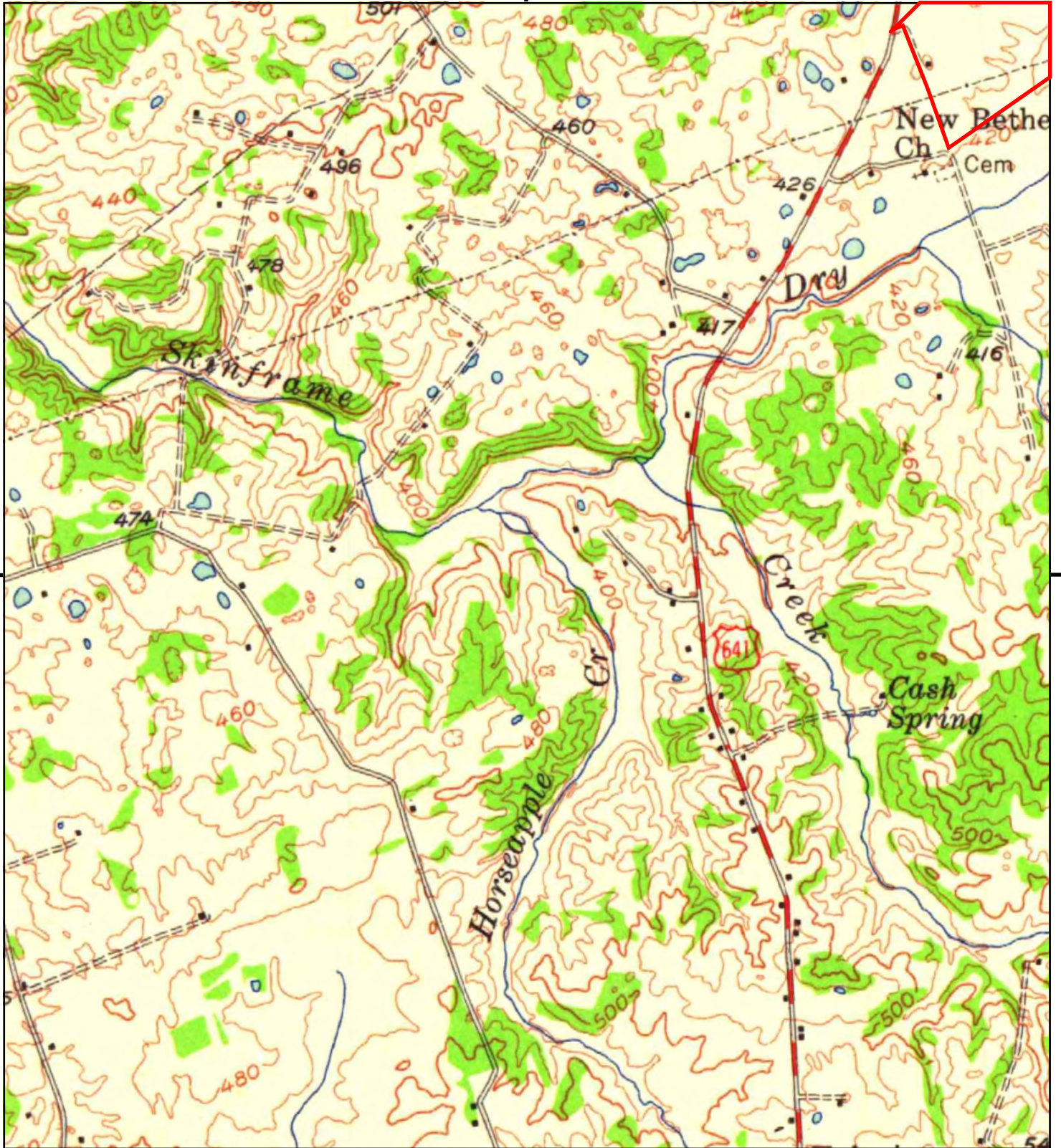
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 ADDRESS: 4255 US HIGHWAY 641
 Eddyville, KY 42038
 CLIENT: Stantec





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 Eddyville, KY 42038
 CLIENT: Stantec





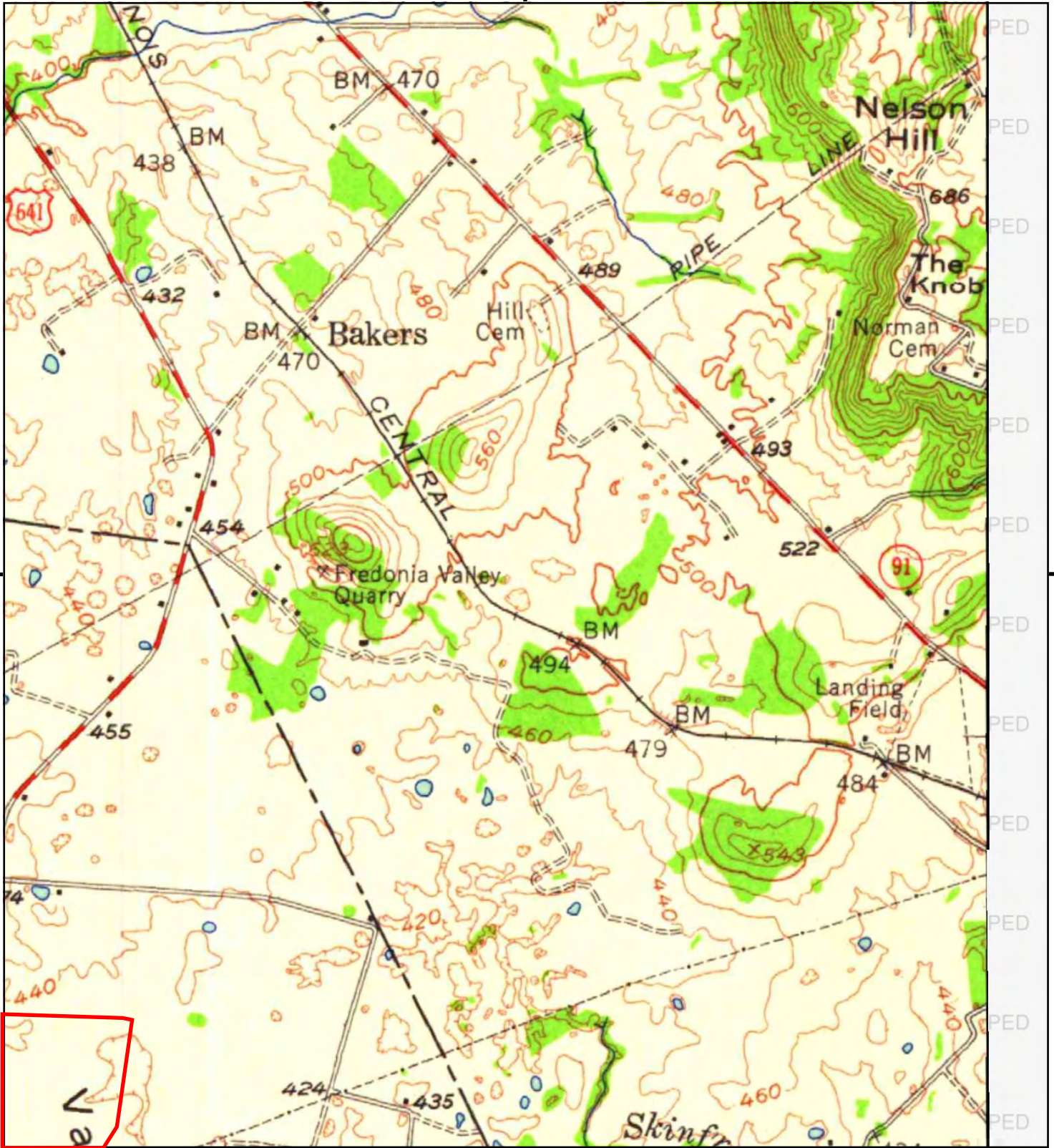
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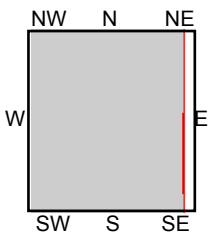
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 Eddyville, KY 42038
 CLIENT: Stantec





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 Eddyville, KY 42038
 CLIENT: Stantec





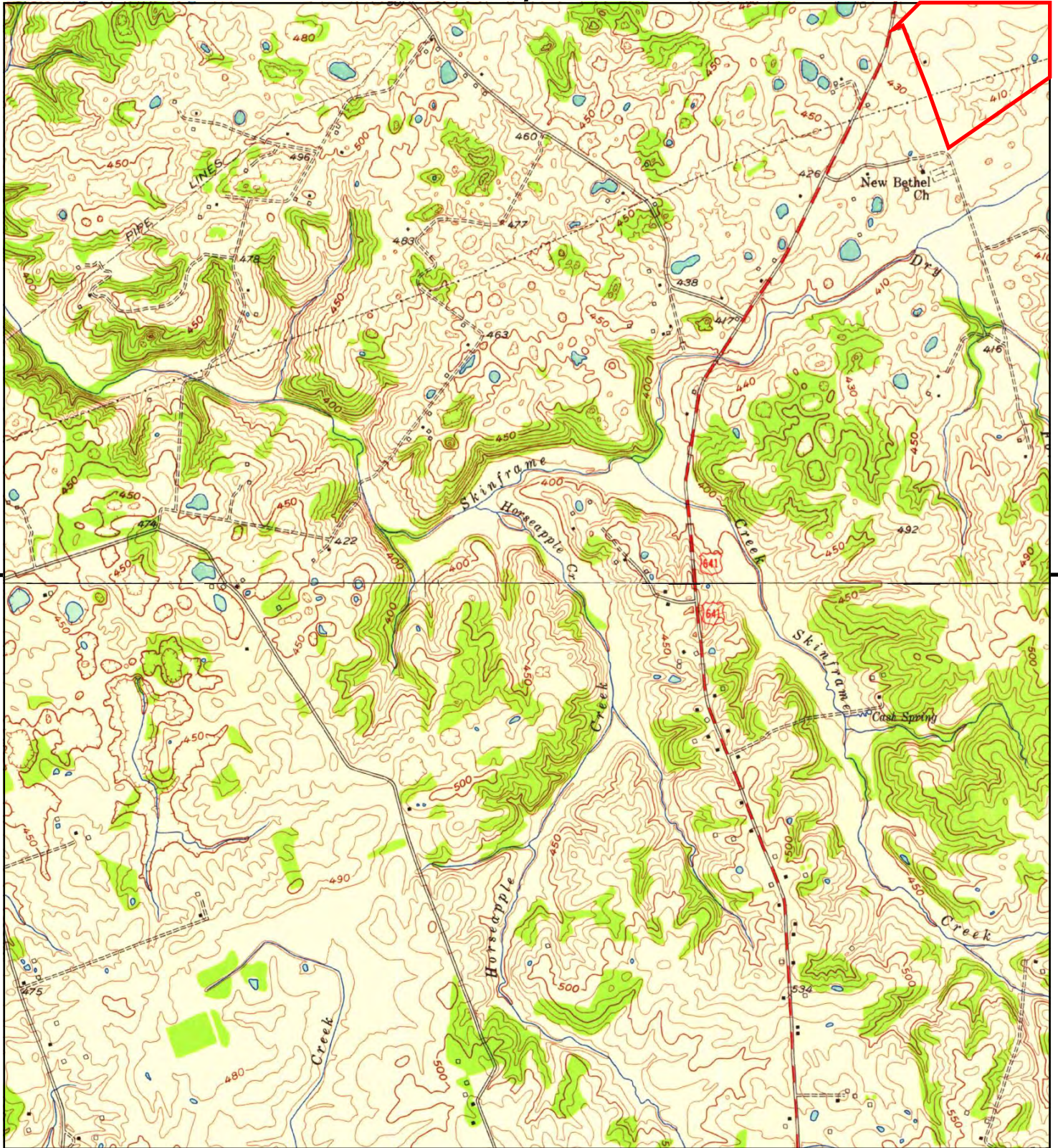
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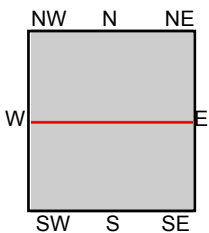
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ADDRESS: 4255 US HIGHWAY 641
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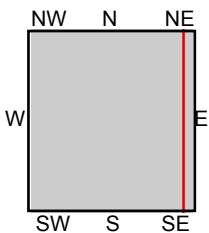
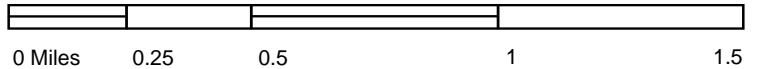
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SITE NAME: Ashwood Site
ADDRESS: 4255 US HIGHWAY 641
Eddyville, KY 42038
CLIENT: Stantec





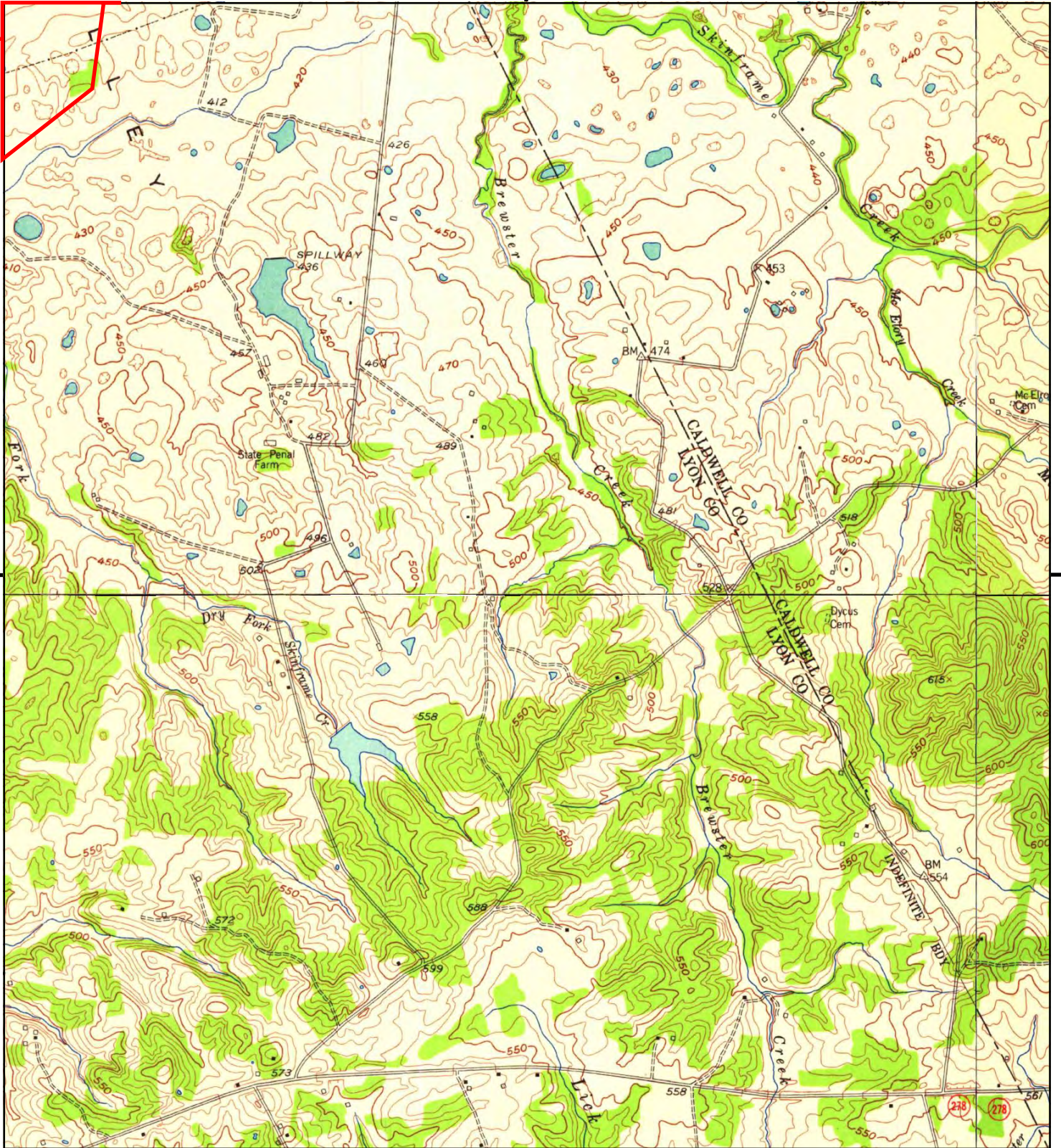
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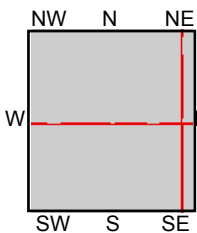
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Eddyville, KY 42038
CLIENT: Stantec





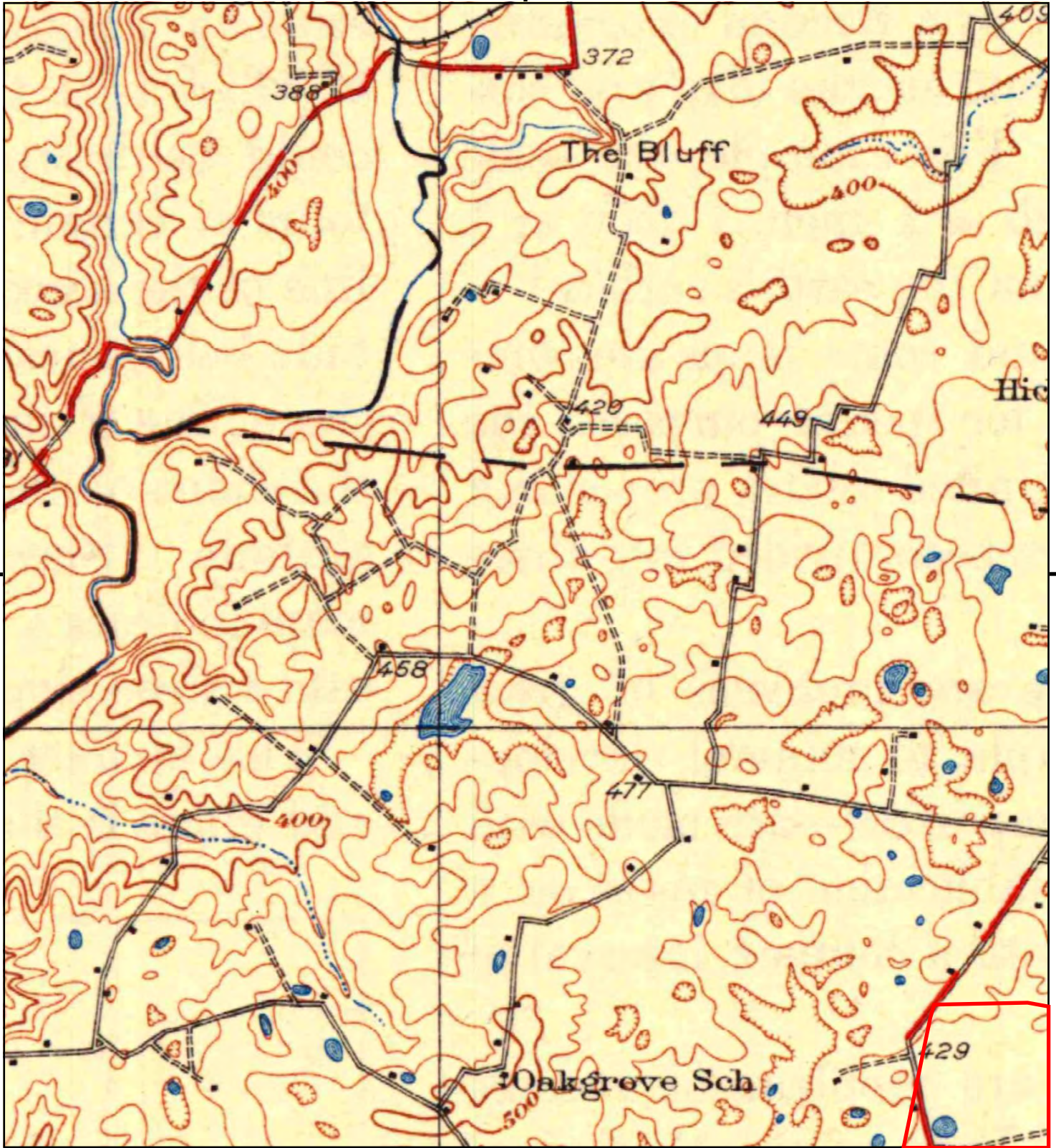
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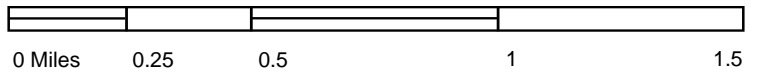
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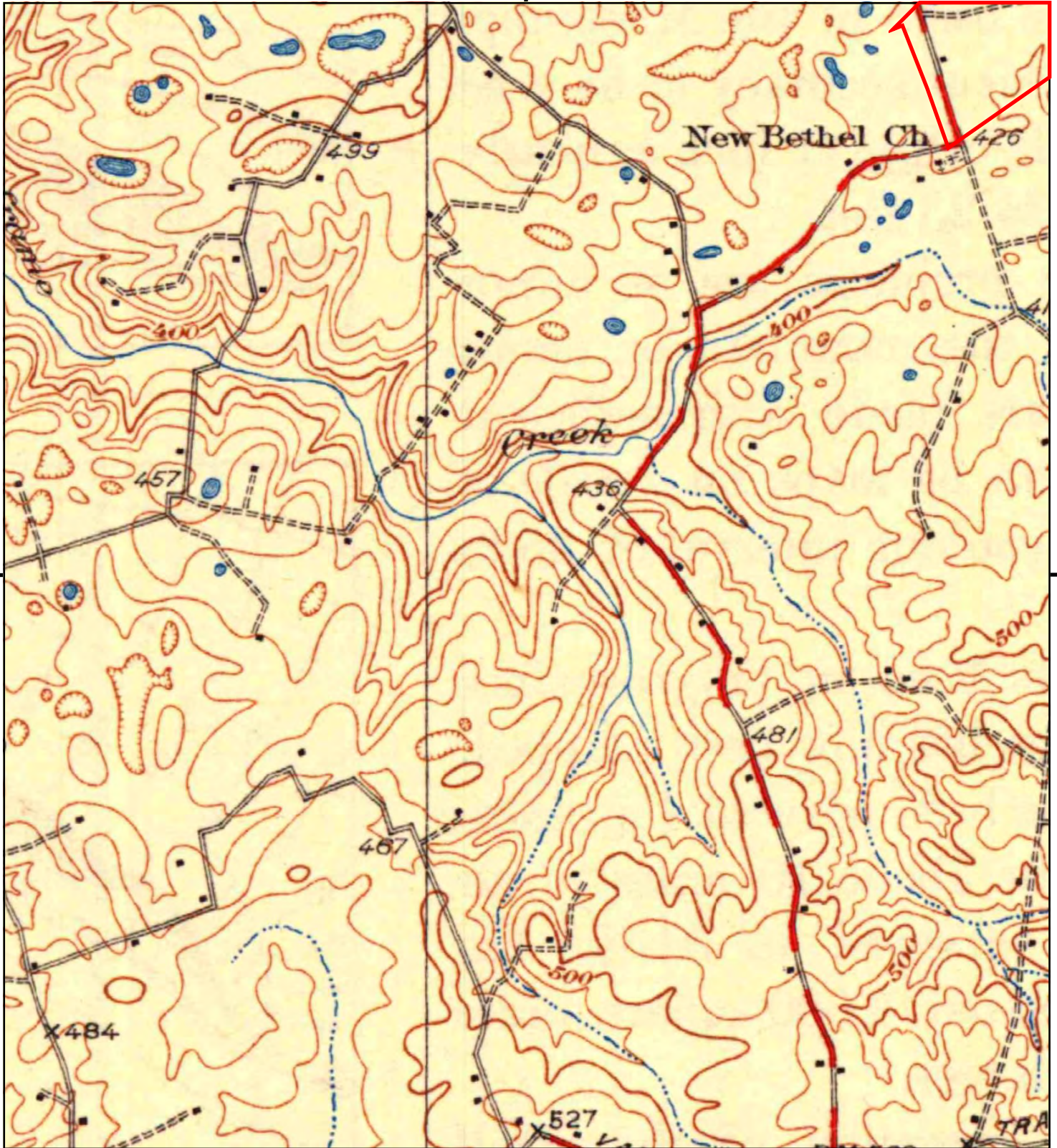
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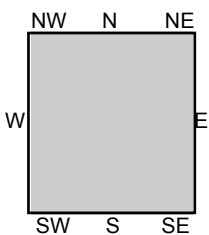
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CLIENT: Stantec





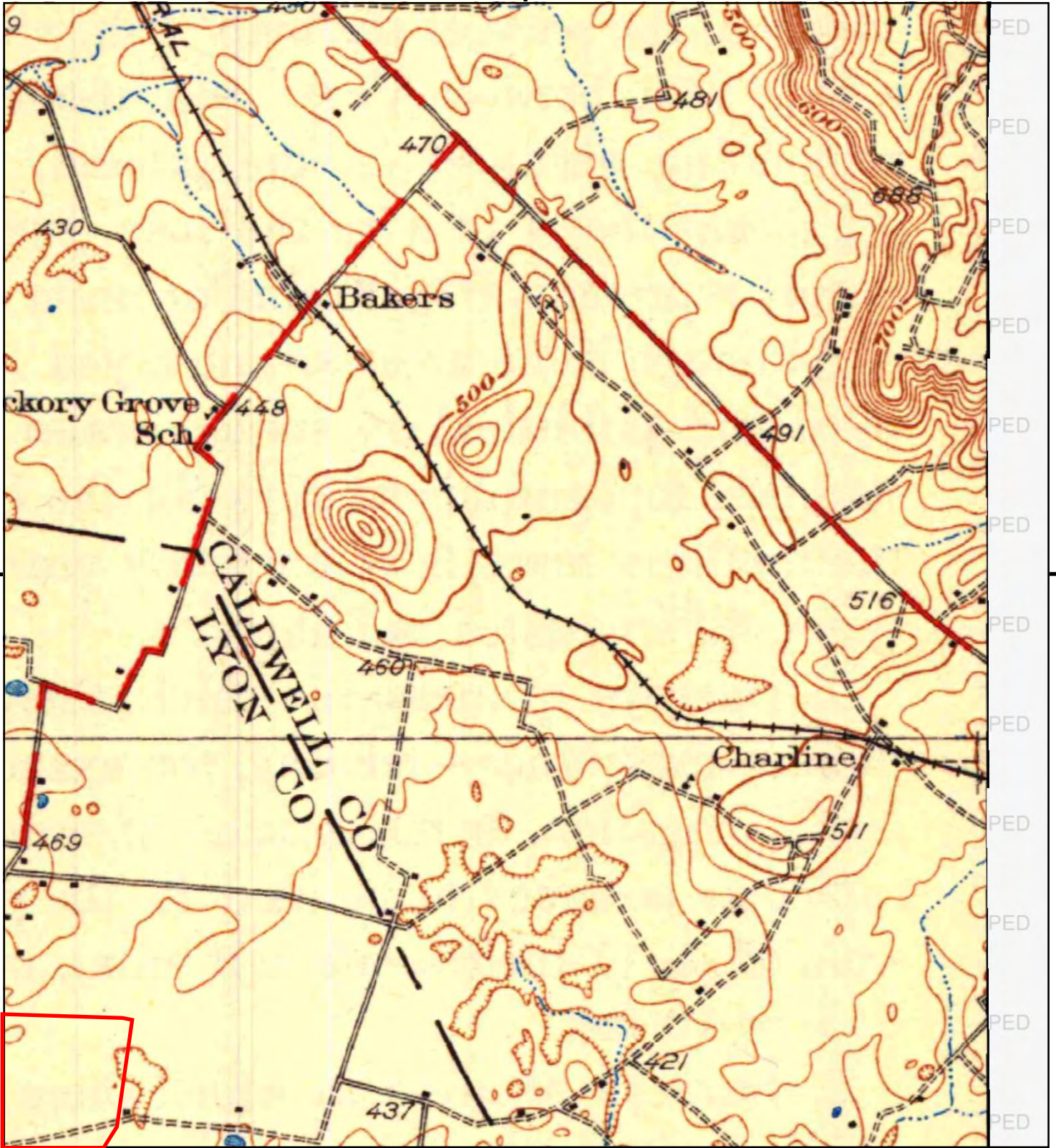
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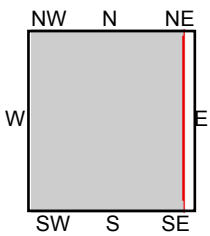
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 Eddyville, KY 42038
 CLIENT: Stantec





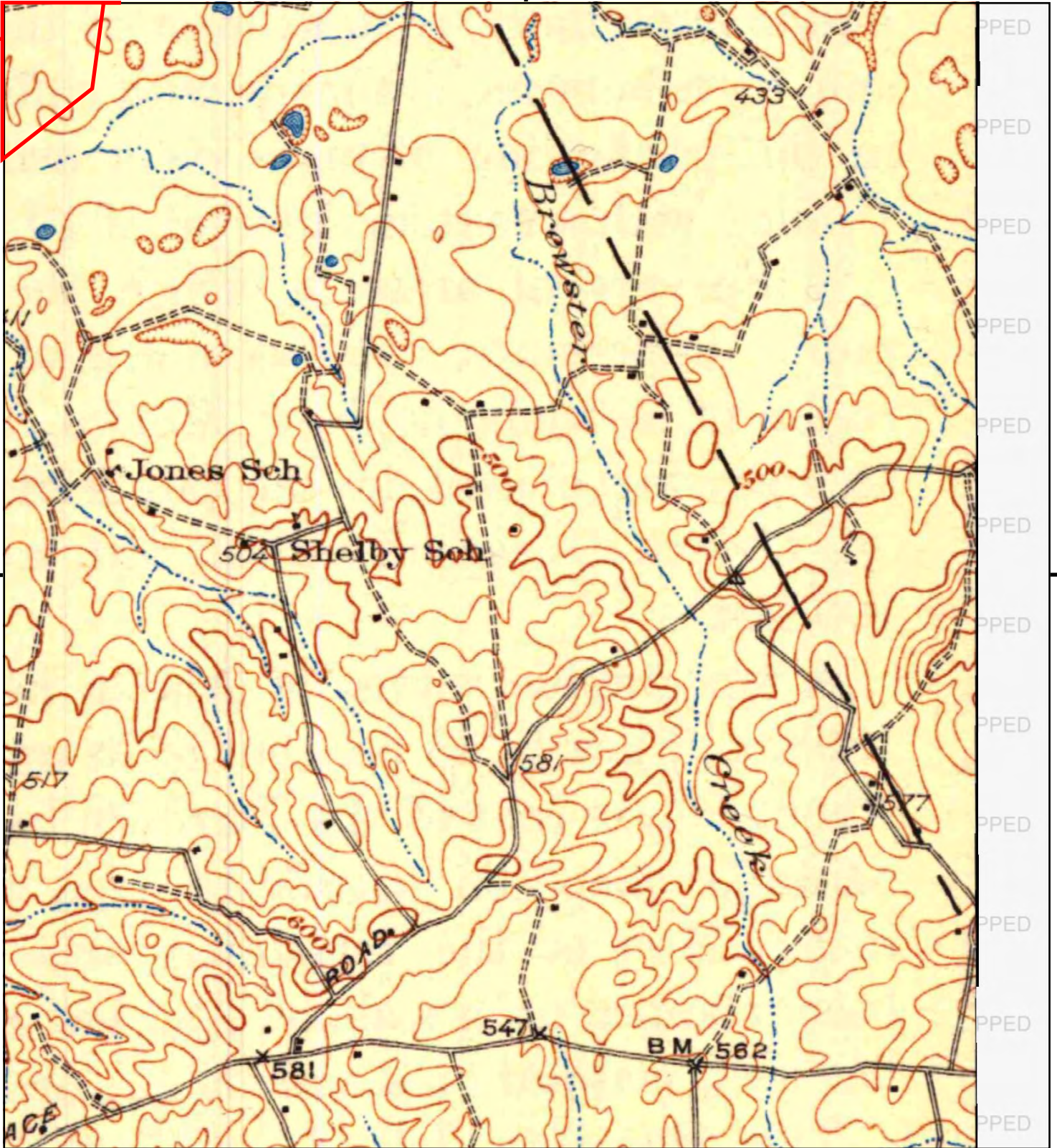
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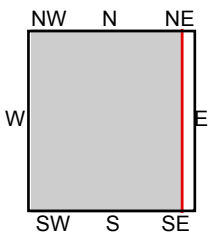
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 CLIENT: Stantec





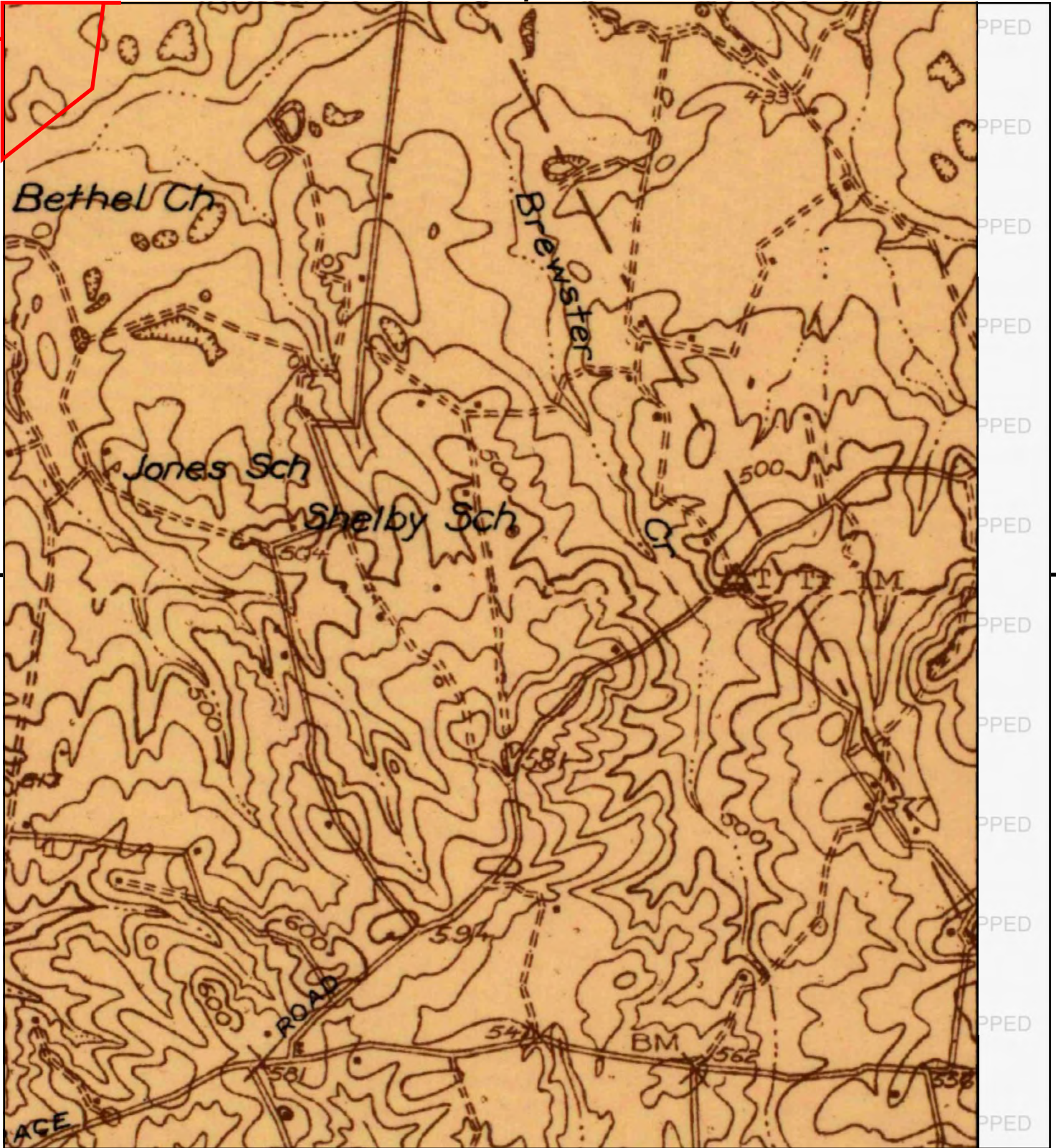
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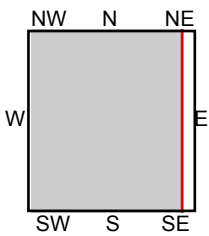
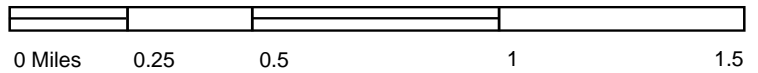
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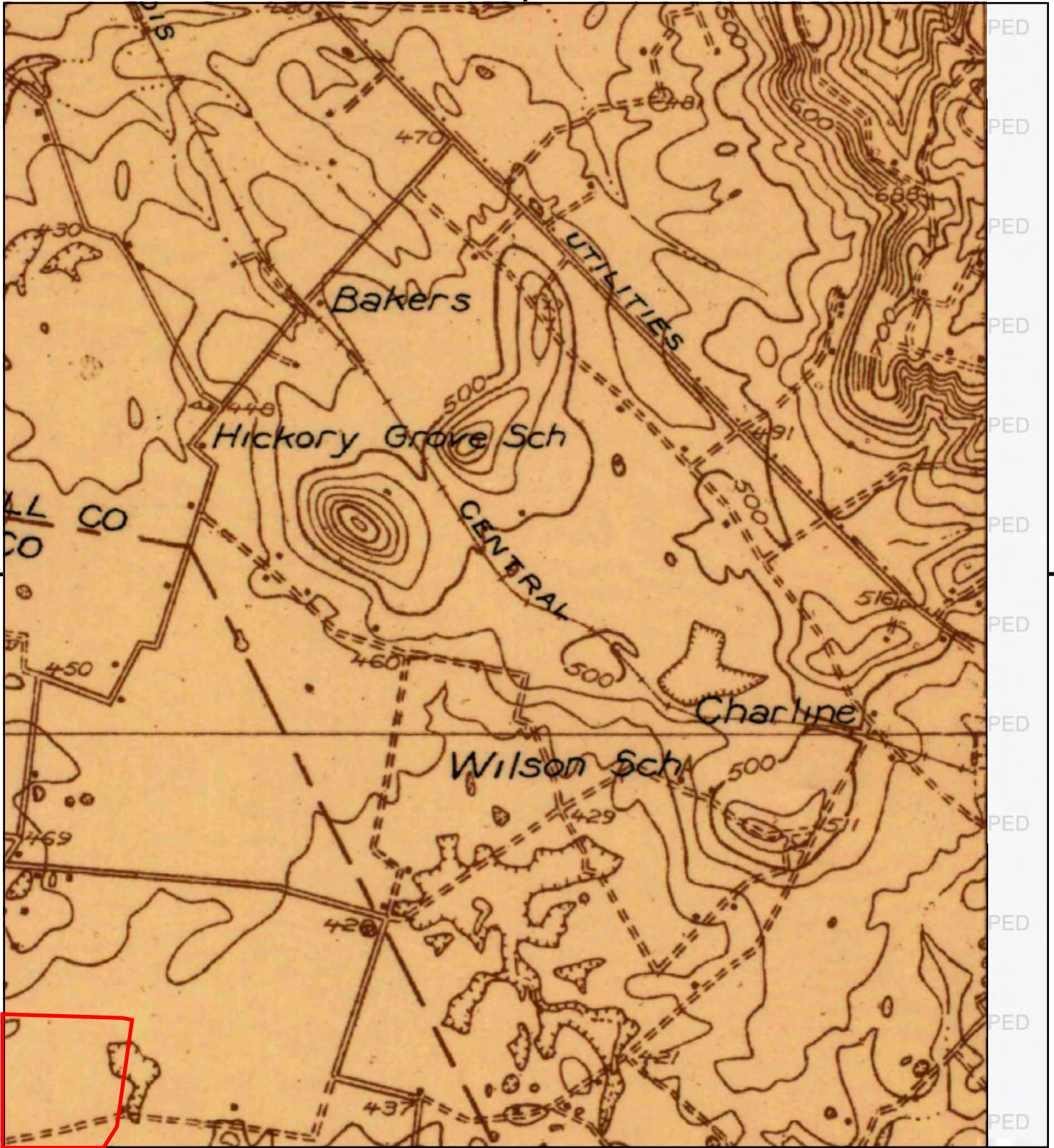
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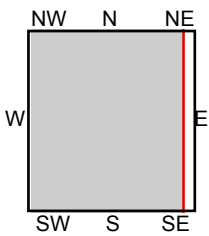
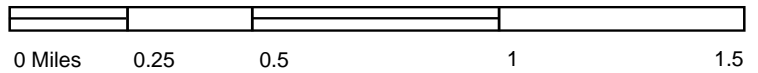
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 Eddyville, KY 42038
 CLIENT: Stantec





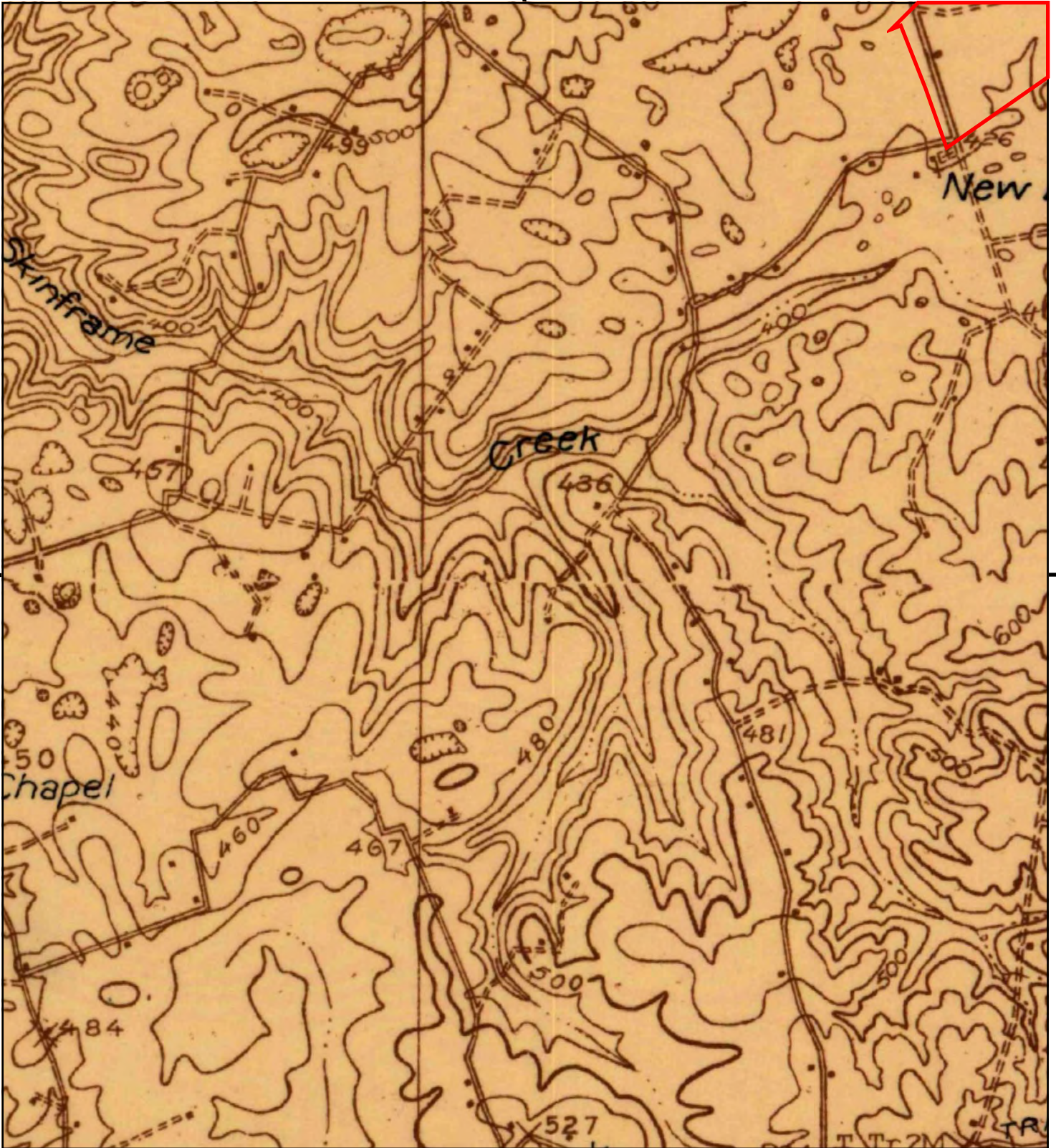
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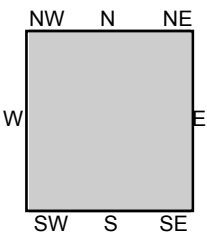
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SITE NAME: Ashwood Site
 ADDRESS: 4255 US HIGHWAY 641
 Eddyville, KY 42038
 CLIENT: Stantec





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 Eddyville, KY 42038
 CLIENT: Stantec



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
ASHWOOD SOLAR I FARM SITE
LYON & CALDWELL COUNTY, KENTUCKY**

NOVEMBER 2018



**SMITH MANAGEMENT GROUP
1405 Mercer Road
Lexington, KY 40511
859-231-8936**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
ASHWOOD SOLAR I FARM SITE
LYON & CALDWELL COUNTY, KENTUCKY**

**NOVEMBER 2018
SMG Project Number 2018-6584**

Prepared for:

Ashwood Solar I, LLC

Prepared by:



SMITH MANAGEMENT GROUP

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

A handwritten signature in black ink, appearing to read "Jh Frey", is written over a horizontal line.

**Josiah Frey
Environmental Scientist**

**Karen Thompson, P.G., C.H.M.M.
Manager of Environmental Services**

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| APPENDIX E | References |
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1.0 EXECUTIVE SUMMARY

Smith Management Group (SMG) was retained by Ashwood Solar I, LLC to perform a Phase I Environmental Site Assessment (ESA) of eleven parcels (38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6) along US Route 641 in Lyon and Caldwell County, Kentucky. The ESA was completed in general conformance with the scope and limitations of ASTM Practice E1527-13. Any exceptions to, or deletions from, this practice are described in **Sections 2.0 and 8.0** of this report. The assessment was completed in November 2018.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- *Dumped materials including household appliances and a partially buried metal cavity with protruding pipe in a sinkhole at Parcel 38-14.*

This Executive Summary does not contain the details of the methods used, limitations of available information, or information obtained. Therefore, the user must read this report in its entirety for a comprehensive understanding of the potential environmental risks that may or may not be present on this property.

2.0 INTRODUCTION

2.1 Purpose

The assessment was conducted using professional judgment according to ASTM Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The purpose of the assessment was to identify recognized environmental conditions (RECs), defined as the *“presence or likely presence of any hazardous substances or petroleum products in, on, or at the property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs.”* The assessment was conducted within the limitations of the scope and process described in this Section 2.0 of this report. In addition, SMG evaluated the parcels to assess whether HRECs or CRECs were associated with the site. SMG was authorized by Mr. David Savage of Ashwood Solar I, LLC to perform the assessment.

2.2 Scope

The Scope of Work is included in **Appendix A** of this report. This investigation included visual observations of the property, review of information provided Ashwood Solar I, LLC, interviews with persons familiar with the site who are listed in this report and a review of readily accessible and publicly available records, including historical information. This report includes a discussion of the information gathered.

SMG did not collect any samples of soil, water, or air for laboratory analysis or for any other purpose.

The scope of work did not include evaluation of the property for:

- Jurisdictional wetlands or floodplains;
- Radon, lead paint, asbestos or drinking water quality;
- Health and safety concerns; or
- Environmental compliance.

2.3 Significant Assumptions

SMG has made the following assumptions in the preparation of this report:

- Information provided by Ashwood Solar I, LLC, information gathered during the site visit and in interviews is true and accurate to the best of the individual’s knowledge.
- Information provided in a User Questionnaire, concerning matters such as unusually low appraisal or sale price, environmental liens, current or prior sources of contamination or remediation activities, is true and correct to the best of the respondent’s knowledge.
- The ESA is being conducted prior to a potential property acquisition in order to assist the purchaser in qualifying for liability protections from CERCLA liability and to understand material environmental conditions that may impact the value of the property or the operation of business in the future.
- The ESA is being conducted to provide the USER with information about material environmental conditions which may impact the value of the property or the operation of businesses on the property.

2.4 Limitations and Exceptions

SMG used professional judgment to make an appropriate inquiry into the current and previous use of the property to obtain commonly known or reasonably ascertainable information with respect to recognized environmental conditions on the property. The conclusions in this report are based on observations of existing site conditions on the date of the site visit, interpretations of available site history including site use information. Therefore, this report is subject to the limitations of historical documentation, availability and accuracy of pertinent records, and the accuracy and personal recollection of those persons contacted.

No site excavation, borings or other subsurface investigations or sampling of water, soil or air was conducted. No assessment of the regulatory compliance of the site or facility has been made. The investigation is considered to be appropriate but is not exhaustive. Therefore, this document should not be construed as a guarantee or assurance that undiscovered environmental problems do not exist. Information sought and not obtained or incomplete information may represent a data gap which could influence the ability of the reviewer to reach a conclusion about the property. These gaps, if any, are described and discussed in **Section 8.0** of this report.

SMG's work is intended to conform to generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographic area. SMG has observed a degree of care and skill generally exercised by the technical community under similar circumstances and conditions. Our findings and conclusions must be considered probabilities based upon professional judgment on the significance of the limited data gathered during the course of the ESA. This assessment was conducted based upon the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed according to generally accepted standards of engineering, geology and hydrogeology practices in the Commonwealth of Kentucky, available information, and our professional judgment. No other warranty is expressed or implied.

This report is intended as a limited assessment of the environmental conditions associated with the subject site. SMG does not warrant the work of regulatory agencies or other third parties supplying information that may have been used in preparation of this report. The assessment relied primarily upon readily available and easily accessible historic information, visual observations and verbal/written reports of others. The limitations and data gaps, if any, of this assessment should be recognized in drawing any conclusions with regard to environmental issues associated with this property. Those limitations are described in this report.

2.5 Reliance and Understanding

The findings in this report are relevant to the date of the site visit and should not be relied upon to represent conditions at later dates. As outlined in 40 CFR 312.20 (c) (3), portions of this report must be updated within a 180-day period. The interviews, regulatory review, search for environmental liens, visual inspection of the property, and declaration by the environmental professional must be updated within 180 days from the date those activities were completed. While the information contained in this report can be used as a reference source at any time in the future, in no event may the report be relied upon after one year, regardless of required updates to the report.

This report has been prepared for Ashwood Solar I, LLC. No other individual or entity shall have the right to rely upon this document or any part thereof, without SMG's expressed written consent.

3.0 GENERAL SITE INFORMATION

3.1 Site Location and Description

The Ashwood Solar I farm site consists of eleven parcels (38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6) totaling approximately 1717-acres along US Route 641 between Fredonia and Eddyville in Lyon and Caldwell County, Kentucky. The site is bordered by agricultural land in all directions with the Western Kentucky Correctional Complex to the southeast and the Martin Marietta Aggregates quarry to the northeast. The property is located on agricultural land along the Lyon County and Caldwell County northeast border (**Site Location Map, Figure 1**).

These parcels are relatively flat with onsite drainage flowing towards sinkholes within or adjacent to these parcels (see **Site Location Map, Figure 1**). Photographs of the property have been provided in **Appendix B - Site Photographs**.

3.2 Current Use of the Site

The subject site consists of eleven rural parcels observed to be in active row crop agriculture.

3.3 Historic Use of the Site

According to the topographic maps and aerial photographs discussed in **Section 5.2.1**, the subject site has historically been agricultural land. Mr. White, Mr. Young, Mr. Williams and Ms. Jacobs representing the parcel owners indicated that the subject site has been in agricultural land use to the extent of their knowledge (**Section 7.0**).

3.4 Uses of Adjacent and Nearby Property

The subject site consists of agricultural fields in rural Kentucky. Based on information obtained during the site visit, properties adjacent to the site are as follows:

- North: Agricultural lands in Caldwell County,
- West: Agricultural lands in Lyon County,
- East: Agricultural lands in Lyon and Caldwell County with a quarry beyond, and
- South: Agricultural lands in Lyon County with a correctional facility beyond.

The subject property occurs on cleared agricultural lands in Lyon and Caldwell County, Kentucky. Properties surrounding the site are generally at equal elevation to the subject site with local drainage directed towards sinkholes on and adjacent to the subject site parcels. The Western Kentucky Correctional Complex is located over 0.5-miles to the southeast of the closest parcel within the subject site. The Martin Marietta Aggregates quarry is located approximately 1 mile to the northeast of the closest parcel within the subject site.

4.0 USER RESPONSIBILITIES

4.1 Title Records Search

SMG requested environmental lien information from GeoSearch at the direction of the User on November 7, 2017. On November 16, 2018 GeoSearch provided a report indicating that no environmental liens were identified for the subject site parcels (38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6). The User indicated in the User Questionnaire that a chain of title for the subject site parcels has not been compiled.

4.2 User Knowledge and Property Limitations

A User Questionnaire was provided to Mr. David Savage of Ashwood Solar I, LLC pursuant to the requirements of 40 CFR 312.22 and the ASTM E1527-13 Standard, to determine whether they had any knowledge of any of the following items:

- Title and judicial records relating to environmental liens and activity and use limitations (AUL), including, without limitation,
 - Deed restrictions controlling the use of the property due to the presence of hazardous substances or petroleum products.
 - Pending, threatened or past litigation or administrative proceedings regarding hazardous substances or petroleum products.
 - Notices or actions from any governmental entity regarding any possible violation or liability relating to hazardous substances or petroleum products.
 - Activity and land use limitations (AUL) that are in place or that have been filed or recorded in a registry.
- Purchase price that is significantly less than comparable properties or the relationship of the purchase price to the fair market value of the property if it were not contaminated.
- Specialized knowledge or experience of the person seeking to qualify for the limited liability protection.
- Commonly known or reasonably ascertainable information about the property.
- The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination.

Mr. David Savage representing Ashwood Solar I, LLC, responded that no lien search or chain of title have been prepared by the User and that he is unaware of any environmental liens associated with the subject site. Mr. Savage indicated he has no knowledge of any required limitations of activity and use for the subject site or specialized knowledge or experience related to the subject site. Mr. Savage was unaware of any spills, releases, cleanups or other potential violations of environmental laws. A copy of the questionnaire is provided in **Appendix A**.

5.0 RECORDS REVIEW

The following readily available federal, state, and/or local records were reviewed to identify recognized environmental conditions associated with the site and to develop a historical perspective of its prior use.

5.1 Topographic Map

The US Geological Survey (USGS) Fredonia, KY Topographic map was reviewed for information regarding property conditions. The USGS topographic map shows the subject site spanning eleven tracts along US Route 641. Surface water would generally flow into local depressions at isolated onsite ponds and sinkholes, while the southernmost portions of Parcel 38-20 and Parcel 49-5 slope slightly south towards an unnamed tributary of Skinframe Creek on the map.

5.2 Historic Information

5.2.1 Aerial Photographs and Historical Topographic Maps

SMG reviewed four (4) historical topographic maps dated 1931, 1954, 1955, and 2013 (**Figure 3** through **Figure 6**) and eighteen (18) readily available aerial photographs of the site taken in 1936, 1952, 1952 (alternate), 1959, 1959 (alternate), 1965, 1973, 1973 (alternate), 1983, 1993, 1998, 2004, 2006, 2008, 2010, 2012, 2014, and 2016 (**Figure 7** through **Figure 24**). Each of the historical topographic maps and aerial photographs were obtained from GeoSearch. Aerial photographs are generally flown at medium to high altitudes and specific site details are not always discernible. However, aerial photographs are generally useful in comparing historical and current conditions.

The 1931 historical topographic map show the subject site in a rural area east of Oakgrove School and north of New Bethel Church. A large sinkhole complex is mapped in the central part of the western parcels. Seven buildings are mapped throughout the subject site indicative of barns or residences. The 1954 topographic map also shows the site in a rural area with few buildings and numerous small ponds and sinkholes. The Fredonia Valley Quarry is depicted northeast of the site and the State Penal Farm is depicted southeast of the site. The 1955 topographic map still depicts the site as rural agricultural land with sinkhole systems throughout, although the buildings on the easternmost parcel no longer appear on the map. The 2013 topographic map does not depict buildings on the subject site but does depict a road called “Breezy Loop” in the southwest parcels around a forested section of the subject site.

The 1936 aerial photograph depicts the subject site as a patchwork of agricultural parcels with multiple depressions and ponds throughout. The 1952 and 1952 alternate aerials depict the subject site and surrounding areas as agricultural lands with small buildings along US Route 641, north of Coleman Doles Road, and at the easternmost parcel. A quarry is first depicted northeast of the site in these 1952 aerials. The 1959 aerial photo is grainy making site specific features difficult to discern. The alternate 1959 aerial depicts similar building and agricultural features as the 1952 aerial, although the easternmost parcel is not in frame. The 1965 aerial is grainy and individual features are not easily identifiable. The 1973 and 1973 alternate aerials show previously forested portions converted to cleared agricultural lands in the central parcels. The State Penal Farm appears to be depicted on the 1973 aerials southeast of the site. The 1983 aerial is an infrared photograph showing the subject site in varying stages of agricultural production. Many of the buildings previously identifiable are now absent in the northern, southern and easternmost parcels, while the barns observed onsite in the central parcels are still depicted.

The number of buildings depicted at the State Penal Farm has grown by the 1993 aerial. The 1998 aerial depicts expansion at both the State Penal Farm and Fredonia Valley Quarry. The “Breezy Loop” road is depicted adjacent to, but not on, the subject site near US Route 641. Color photographs of the subject site are provided for years 2004, 2006, 2008, 2010, 2012, 2014 and 2016. A road through the northernmost parcel is depicted first in 2004. The subject site remains in various stages of agricultural production throughout these color aerial photographs, while forested portions appear to be progressively cleared over time for agricultural production. The 2014 aerial appears to show trenches across one of the northern parcels likely for an irrigation boom observed while onsite (see **Section 6.0**). Irrigation circles are depicted in this same parcel in 2016 indicating use of an irrigation boom at this portion of the subject site.

5.2.2 City Directories

No city directories were requested as the site consists of rural agricultural land with no addresses associated with the parcels.

5.2.3 Sanborn Maps

No Sanborn Maps were requested as the site consists of rural agricultural lands with no structures on the parcels other than agricultural barns noted in **Section 6.0** of the report.

5.3 Federal Agencies Database Review

SMG obtained federal environmental database information GeoSearch on November 8, 2018. This information is contained in **Appendix C** - GeoSearch E RecSearch Report. Standard ASTM database information available from GeoSearch is typically updated on approximate 90-day intervals. A summary of the search of the ASTM standard resource databases within the ASTM specified distances is provided below. Also shown are the numbers of occurrences on each database.

| Source | Description | Distance | Sites |
|----------------------|---|--------------------------|--------------|
| NPL | Federal National Priorities List | within 1 mile | 0 |
| Delisted NPL | Delisted from the Federal National Priorities List | within 0.5 mile | 0 |
| SEMS (fka CERCLIS) | Sites which have been or are currently under review for releases of hazardous substances on the CERCLIS database or the Superfund Enterprise Management System (SEMS) that replaced it. | within 0.5 mile | 0 |
| SEMSARCH (fka NFRAP) | CERCLIS archived sites with no further required action | within 0.5 mile | 0 |
| CORRACTS | RCRA facilities with reported violations and subject to corrective actions | within 1 mile | 0* |
| RCRA TSD | Hazardous waste treatment storage or disposal sites | within 0.5 mile | 0 |
| RCRA Generators | Hazardous waste generators, large or small | property/adjoining prop. | 0 |
| Federal IC/EC | Federal Institutional or Engineering Controls | property only | 0 |
| ERNS | Emergency Response Notification System, list of petroleum or hazardous substance spills | property only | 0 |

| Source | Description | Distance | Sites |
|---------------|---|-----------------|--------------|
| BF | Federal Brownfields, Voluntary Cleanup Site | within 0.5 mile | 0 |

*The GeoSearch Report identifies no RCRA sites under corrective action or subject to corrective action (RCRAC + RCRASUBC).

Review of the **E-RecSearch Report** indicates that there are no listings for the subject site on any of the above federal environmental databases. The report did not identify any NPL, Delisted NPL, SEMS, SEMSARCH, CORRACTS, RCRA TSD, RCRA Generators, Federal IC/EC, ERNS, or BF facilities within the standard search distances of the subject property specified by ASTM 1527-13.

5.4 State Environmental Databases

SMG obtained state environmental database information from GeoSearch on November 8, 2018. This information is contained in **Appendix C – GeoSearch E-RecSearch Report**. Standard ASTM database information available from GeoSearch is typically updated on approximate 90-day intervals. A summary of the search of the ASTM standard resource databases within the ASTM specified distances is provided below.

| Database (Source) | Description | Distance | Sites |
|-----------------------------------|--|--------------------------------|--------------|
| SLPL/SHWS | State Level CERCLA/Superfund Sites | within 1 mile | 1 |
| LFSWDS | Landfill and Solid Waste Disposal Sites | within 0.5 mile | 0 |
| UST/RUST | State UST facilities | property or adjoining property | 0 |
| LUST | Leaking Underground Tanks | within 0.5 mile | 0 |
| IC/EC | State Institutional or Engineering Controls | property only | 0 |
| BROWNFIELDS/ VOLUNTARY CLEANUP | State Brownfields, Voluntary Cleanup Site or State Contaminated Sites list | within 0.5 mile | 0 |

Review of the **E-RecSearch Report** indicates that there are *no* listings for the subject site on any of the above state environmental databases. Nor did the report identify any SWL/LF, UST/RUST, LUST, State IC/EC or Brownfields/Voluntary Cleanup sites within the standard search distances specified by ASTM 1527-13. This report did identify one State Level Superfund Site within 1 mile of the subject site. The Western Kentucky Correctional Complex is listed as a closed and restored petroleum cleanup site approximately 0.58-miles southeast of the subject site. However, based on the regulatory status and distance from the subject site, it is unlikely to have impacted the subject site.

Unmapped/Non-Geocoded Facilities

Unmapped or non-geocoded facilities are those that have incomplete address information, or the location of the facilities are not known or could not be located on the database. SMG reviews this list and makes an attempt to locate these facilities during the site reconnaissance. The GeoSearch database did not identify any unmapped facilities within the zip code(s) searched.

5.5 State Open Records Review

A request for records associated with the subject site was submitted to the Open Records representative in Kentucky's Department of Environmental Protection (KDEP). The KDEP representative responded there are "no listings for any of the coordinates that you have submitted" (**Appendix D**).

5.6 Local Open Records Review

On November 16, 2018, SMG contacted the Lyon County Emergency Management requesting records or files that they may have regarding environmental incidents or spills at the subject site. The Lyon County Emergency Management stated that they do not have "records or knowledge of spills" at the subject site. Parcel 49-5 is the one parcel partially located within Caldwell county, but road access is from Lyon County. SMG attempted to contact the Caldwell County Office of Emergency Management regarding the easternmost portion of this parcel but was unable to reach someone at this office. Since access to the site is from Lyon County and a response was received from the Lyon County Emergency Management, it is not anticipated that a lack of response from the Caldwell County Office of Emergency Management will affect the ability of the Environmental Professional to identify RECs associated with the property.

A copy of the email responses is included in **Appendix D, Regulatory Contacts**.

5.7 Previous Environmental Investigations

Mr. David Savage of Ashwood Solar I, LLC indicated that no previous environmental investigations have been conducted for the subject site (**Section 7.0**).

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

Josiah Frey of SMG conducted a site reconnaissance of the subject property on November 13-14, 2018. Photographs taken during the site visit are found in **Appendix B**.

The site visit consisted of walking the accessible portions of the property. Adjacent properties were also observed from public roads and the subject property boundary. The surrounding area was observed during a vehicle reconnaissance. The weather was partly cloudy with temperatures in the upper 20's.

6.2 General Observations

The subject site consists of eleven parcels of cleared agricultural land with rural agricultural properties bordering the site to the north, east, south and west. Pipeline markers identified a buried natural gas pipeline along the western and northern border of Parcel 38-16. SMG inspected sinkholes throughout the subject site for potential releases of hazardous material or petroleum products. SMG also observed metal and wood framed barns on parcels 49-6, 38-20, 38-14 and 38-15.

Multiple sinkholes included various forms solid waste likely associated with residential and agricultural activities, although only materials observed in one sinkhole on Parcel 38-14 included materials that represent a Recognized Environmental Condition (REC). Light staining of *de minimis* quantities were observed in concrete floored barns on Parcel 49-6 and 38-14. Also, a dump site of various 5-gallon and 55-gallon drums was observed adjacent to Parcel 39-6 but based on local relief is unlikely to impact the subject site. Photographs of the site are included in **Appendix B** and a Site Map is included as **Figure 2**.

Further description of the site is found in **Section 3.0** of this report.

TABLE 1 RELEVANT SITE CONDITIONS OBSERVED

| CATEGORY | ITEM OR FEATURE | OBSERVATION |
|---|---|--|
| Site Operations, Processes and Equipment | Emergency Generators | 1 old generator observed in a concrete floored barn on Parcel 38-14. |
| | Elevators | None |
| | Air Compressors | None |
| | Process equipment - describe | None |
| | Hydraulic Lifts (Stationary or Mobile) | None |
| Aboveground Chemical or Waste Storage | Evidence of Aboveground Storage Tanks | Two metal cube tanks stored in a dirt floor barn on Parcel 38-15 and a truck bed metal tank in concrete floor in a barn on Parcel 38-14. |
| | Drums, Barrels and/or Containers \geq 5 gallons – solid waste | Cans and buckets marked as solvents, paint products, herbicides and petroleum products from approximately 2-10 gallons observed on |

| | | |
|--|---|---|
| | | concrete floored barns on 49-6 and 38-15 parcels. One 55-gallon oil drum observed to be nearly empty in barn on Parcel 38-14. Two drums of Percol 344 were observed in the barn on Parcel 49-6 which was identified as OSHA non-hazardous by the product label. |
| | Drums, Barrels and/or Containers \geq 5 gallons – process waste | None |
| | Cleaning and/or Similar Supplies | None |
| Underground Chemical or Waste Storage, Drainage or Collection Systems | Evidence of Underground Storage Tanks or Ancillary Equipment | None |
| | Sumps, Cisterns, Catch Basins and/or Dry Wells | One faucet observed in open concrete block square near pond at Parcel 38-5 |
| | Septic Tanks and/or Leach Fields | None |
| | Grease Traps | None |
| | Oil/water Separators | None |
| | Pipeline Markers | Natural gas pipeline marker observed along a fence line on western and northern extents of Parcel 38-16. Two white PVC pipes protruding from the ground on Parcel 38-15 are associated with an irrigation system according to the owner representative. |
| | Interior Floor Drains | None |
| Electrical Transformers/PCBs | Suspect Patched Concrete or Asphalt | None |
| | Skid, pad, platform or pole mounted transformer and/or capacitor | None observed. High voltage power lines cross parcels 39-1, 39-6, 38-20, 49-6, 49-5. One electrical box observed on Parcel 38-15 is associated with irrigation system as identified by the owner representative. |
| Evidence of Releases or Potential Releases | Generators | None |
| | Stressed Vegetation | None |
| | Stained Soil | None |
| | Significant Stained Pavement or Similar Surface | None |
| | Trash, Debris and/or Other Waste Materials | Various materials observed in sinkholes including scrap metal, household trash, small |

| | | |
|------------------------------------|--|--|
| | | metal containers (~5 gal), appliances and one metal drum cavity with external pipe of unknown contents. |
| | Dumping or Disposal Areas | One dumping site including petroleum products of various sizes (5-55 gallons) observed in the property south of Parcel 39-6. |
| | Construction/Demolition Debris and/or Dumped Fill Dirt | Mounded dirt observed on Parcel 38-13 and parcel 39-2 which was identified by the owner representative as erosion material mounded for use on the farm fields. |
| | Surface Water Discoloration, Odor, Sheen, and/or Free-Floating Product | None |
| | Strong, Pungent or Noxious Odors | None |
| | Exterior Pipe Discharges and/or Other Effluent Discharges | None |
| | Laboratory Hoods and/or Incinerators | None |
| | Waste Treatment and/or Water Treatment Systems | None |
| | Compressor Blowdown | None |
| Other Notable Site Features | Surface Water Bodies | Multiple small ponds at depression areas |
| | Surface water outfalls | None |
| | Quarries, Pits or borrow areas of soil or gravel | None |
| | Wells | One well identified by the owner representative for use in maintaining water in one depression pond on Parcel 38-20. |

6.2.1 Wastewater and Stormwater Discharges

No wastewater discharges were observed on the subject site. Stormwater drainage at the subject site drains towards sinkholes and depressions where it collects on the farm fields.

6.2.2 Hazardous Materials Use and Disposal

SMG observed household appliances and a partially buried metal cavity and protruding pipe in a sinkhole depression at Parcel 38-14. This cavity and disposal area represents an REC due to the unknown content of the cavity and potential for additional buried material in the depression. Multiple sinkholes on throughout the subject site including Parcel 49-6, 39-6, 39-2, 38-14 and 38-15 were observed to contain various solid waste materials including scrap metal, concrete blocks, household trash, discarded aerosol cans, metal buckets (~5-gal.), tires and lumber. However, the materials observed in these areas did not appear to be hazardous and does not likely constitute an REC.

Multiple pieces of farm equipment and containers including welding equipment, windows, cut nails, tires and two apparently empty rectangular fuel tanks (~200 to 500 gallons) were observed stored in a dirt floor barn on Parcel 38-14. SMG observed that multiple pieces of equipment were stored on pallets and did not observe obvious evidence of staining or odors indicative of a release.

SMG observed two metal barns with concrete floors on Parcel 49-6 and 38-14 which stored various pieces of equipment and containers including an emergency generator with a flat tire, a truck bed fuel tank, multiple bags of asphalt patch (~10-20), two partially empty 55-gallon drums of Percol 344 (OSHA non-hazardous), disking implements, a power washer, multiple 1-gallon paint cans (~20), multiple 5-10 gallon containers (~7) labeled "flammable solvent" or paint related, a stored stainless steel refrigerator and one mostly empty 55-gallon oil drum. However, SMG observed these to be stored on concrete floors which were in good conditions without significant cracks or patching. Light floor staining was observed to be a *de minimis* condition and not likely to represent an REC.

6.2.3 PCB Equipment

SMG observed two high voltage power lines crossing the parcels 39-1, 39-6, 38-20, 49-6, and 49-5 and one electrical box was observed on Parcel 38-15. However, no transformers or other likely PCB containing equipment was observed on the subject site.

6.2.4 Storage Tanks

SMG did not observe any evidence of underground storage tanks on the subject site. Two rectangular fuel tanks were stored in a barn on Parcel 38-14 and one truck bed fuel tank was observed in a barn on Parcel 38-14. However, these tanks were observed to not be in use and appeared to be empty. No staining was observed on the dirt floor around the stored tanks on Parcel 38-14 and staining on the concrete barn floor at Parcel 38-14 was a *de minimis* condition. Based on these observations it is unlikely that these stored tanks represent an REC.

6.2.5 Contaminated Fill

No obvious evidence of the placement of contaminated fill was observed by SMG during the site visit. SMG did observe soil mounds collected in depressions on Parcel 39-2 and 38-13 which were identified by the owner representative as erosional soil collection areas unlikely to represent RECs. No evidence of discolored soil or stressed vegetation were observed in these areas.

6.2.6 Potential for Migration of Hazardous Substances or Petroleum Products

SMG observed a drum dump area on an adjacent property south of Parcel 39-6. SMG observed discarded buckets and drums from 5 to 55-gallons indicative of hydraulic transmission fluid, antifreeze and petroleum products. However, the subject site drains towards this dump area and is unlikely to be impacted by this dump area. SMG did not observe signs of stressed vegetation, stained soil or odors on the subject site near this area that might be indicative of a release affecting the subject site. Additionally, no records were provided through open records requests from the state or local emergency management or GeoSearch database which might indicate a release from this adjacent property.

6.2.7 Asbestos/Lead Potential

An asbestos evaluation was not conducted as part of the assessment. The structures observed onsite consisted of wood or metal framed barns which are unlikely to be sources of asbestos containing materials (ACM).

Lead paint may be present in any structure constructed before 1980. Multiple 5-gallon buckets identified as flammable solvents potentially containing lead were observed in a barn on Parcel 38-14. Evaluation of lead paint should be a consideration in any renovation or demolition of this barn and also the barn on Parcel 49-6 due to similar construction materials observed at both.

7.0 INTERVIEWS

SMG interviewed Mr. Kim White, Mr. Sam Young, Mr. David Williams, and Ms. Jessica Jacobs representing the current property owners on November 9, 13 and 14, 2018. Additional information was provided by Mr. Kim White and Ms. Jessica Jacobs by email on November 27, 2018. These representatives provided SMG with the following information.

- Mr. Kim White – Parcels 38-5, 38-13, 38-15, 38-16, 39-2, 39-4, 39-6
 - The only building located on these parcels is a barn on Parcel 38-15 used to store equipment. Older buildings have been torn down including a residence and stable.
 - An electrical panel and two PVC pipes on Parcel 38-15 are associated with an electrical line for the irrigation system on that parcel and Parcel 38-16.
 - Mounded soil onsite are from soil eroded during rain events which are mounded for later use.
 - Parcels have historically been used in agricultural production.
 - One groundwater well is located on one parcel for domestic consumption.
 - Historically people dumped household waste such as shingles into some sinkholes but were cleaned out years ago when a gas line was installed onsite.
 - Mr. White was unaware of any spills, releases, hazardous materials stored onsite, waste disposed at the site, PCB containing material or other environmental issues associated with the property.

- Mr. Sam Young- Parcels 38-14, 49-6
 - There are two metal barns and one wooden barn on these two parcels. The wooden barn is approximately 70-100 years old and the metal barns are approximately 40 years old.
 - Parcels have historically been used in agricultural production.
 - Mr. Young was unaware of any spills, releases, hazardous materials stored onsite, waste disposed at the site, PCB containing material or other environmental issues associated with the property.

- Mr. David Williams-Parcel 49-5
 - There was a tobacco barn, another old barn and house possibly from the 1800's on the parcel but the condition of those structures is unknown.
 - The parcel has been used historically for agricultural production. It was used for hay and animal grazing in the 1960's but has been in row crop agriculture since then.
 - The property was temporarily sold in the 1980's and then bought back by the current owner.
 - An old cistern used to be located by the house but has not been in use for over 75 years.
 - Mr. Williams was unaware of any spills, releases, hazardous materials stored onsite, waste disposed at the site, PCB containing material or other environmental issues associated with the property.

- Ms. Jessica Jacobs – Parcel 38-20
 - There are grain silos and a barn in a now overgrown wooded area west of residences along U.S. Route 641.
 - The parcel has historically been farmed with cattle being grazed a long time ago. It has been in row crop agriculture since at least the 1970s.

- Ms. Jacobs was unaware of any spills, releases, hazardous materials stored onsite, waste disposed at the site, PCB containing material or other environmental issues associated with the property.

Information gathered from these representatives is referenced throughout this report.

8.0 EVALUATION

Smith Management Group was retained by Ashwood Solar I, LLC to perform a Phase I ESA of eleven parcels (38-5, 38-13, 38-14, 38-15, 38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6) along US 641 in Lyon and Caldwell County, Kentucky. The ESA was completed in general conformance with the scope and limitations of ASTM Practice E1527-13. Any exceptions to, or deletions from, this practice are described in **Sections 2.0 and 8.0** of this report.

The assessment was conducted to identify Recognized Environmental Conditions (RECs) as that term is defined by the ASTM E1527-13 Standard, within the limitations of the scope and process described in this report. The assessment was completed in November 2018. A list of sources of information used in the preparation of this report may be found in **Appendix E**.

8.1 Data Gaps

During this assessment, SMG was able to obtain all information required by ASTM Practice E1527 in sufficient detail to identify known or suspected RECs in, on or at the property evaluated. A chain of title was not provided but available information indicates the property was used for its current use since the 1930's. SMG was unable to observe inside some of the buildings, including the silos on Parcel 38-20. However, based on the nature of these buildings, the lack of access to these silos would not likely affect the ability of the Environmental Professional to identify RECs associated with the property.

8.2 Findings

SMG identified one suspected REC at a sinkhole on Parcel 38-14 due to unknown contents of a metal cavity in the depression (see **Figure 2**). SMG also observed various solid waste materials in sinkholes on Parcel 49-6, 39-6, 39-2, 38-14 and 38-15 including scrap metal, concrete blocks, household trash, discarded aerosol cans, metal buckets (~5-gal.), tires and lumber that do not likely represent an REC. *De minimis* staining on the concrete floors in two barns on Parcel 38-14 and Parcel 49-6 also are unlikely to represent an REC. Storage of other equipment and materials observed in a barn on Parcel 38-15 is also unlikely to represent an REC due to a lack of observed soil staining or odors indicative of a release.

This report should be read in its entirety for details regarding the site conditions.

8.3 Opinion

It is the opinion of the Environmental Professional that activities associated with this site rise to the level of an REC (*recognized environmental condition*). The historical use of a sinkhole on Parcel 38-14 along with the observed materials in this depression indicate the presence of a REC. Observations of other sinkholes, barns, and adjacent property do not rise the level of a REC.

8.4 Conclusion

SMG performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of eleven agricultural parcels in Lyon and Caldwell County, Kentucky.

Any exceptions to, or deletions from this Practice are described in **Section 2.4** of this Report. The methodology used in the preparation of the report has been described within the report. **Appendix E** provides a listing of references used by SMG in the preparation of the report and the development of the opinion by the Environmental Professional.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- *Dumped materials including household appliances and a partially buried metal cavity with protruding pipe in a sinkhole at Parcel 38-14.*

8.5 Qualifications

Resumes of the SMG personnel responsible for the preparation of this environmental site assessment are included in **Appendix F** to this report.

This report was prepared by Josiah Frey and Karen Thompson who qualify as an Environmental Professional as described in ASTM E1527-13. The Environmental Professional has provided a statement on the signature page of this report with regard to qualifications as required by the Standard.

FIGURES

88° 04'

88° 02'

37° 10'

37° 10'

37° 08'

37° 08'

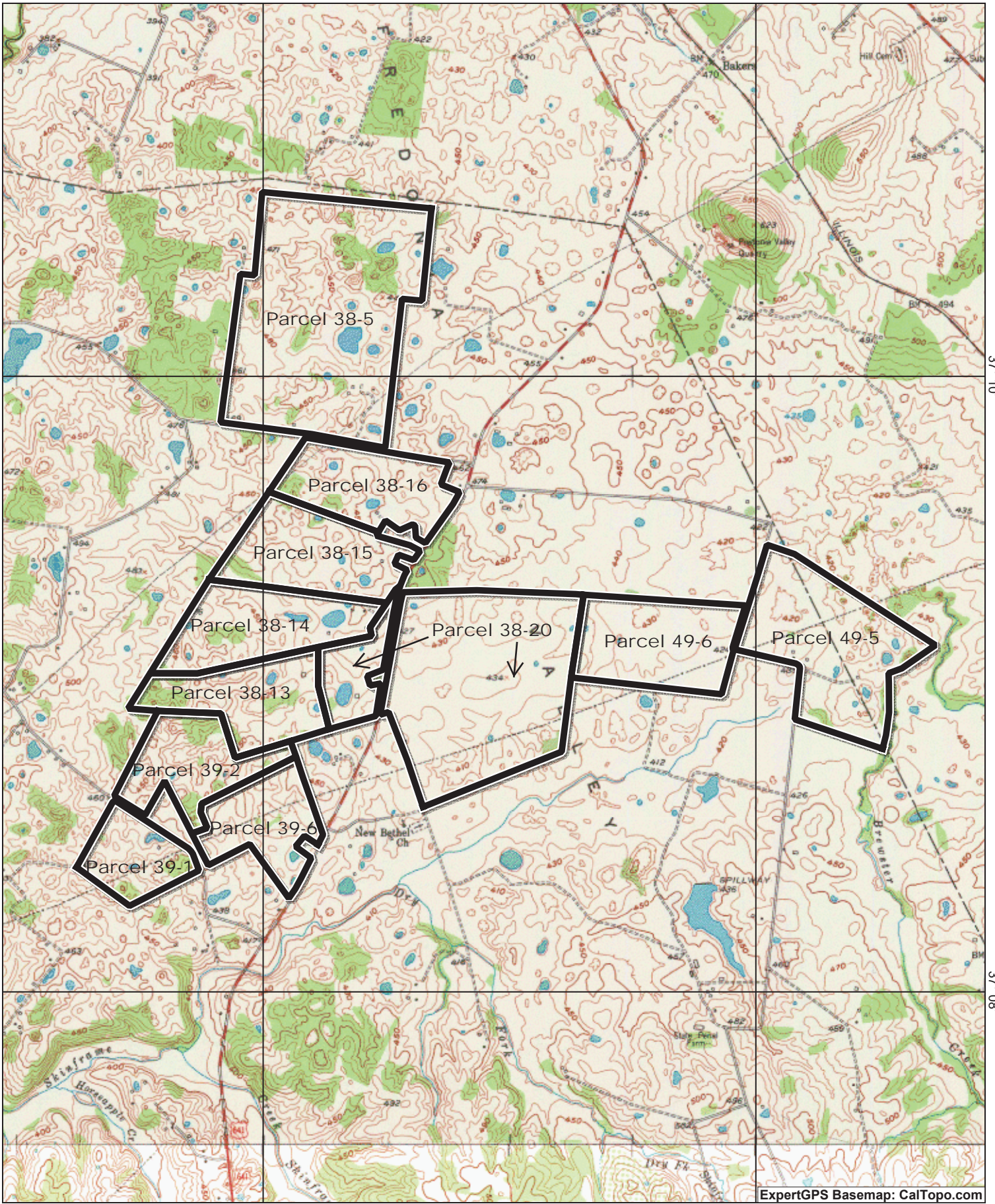


Figure 1 - Site Location Map



Scale: 1 : 30000.





Figure 2 - Site Map

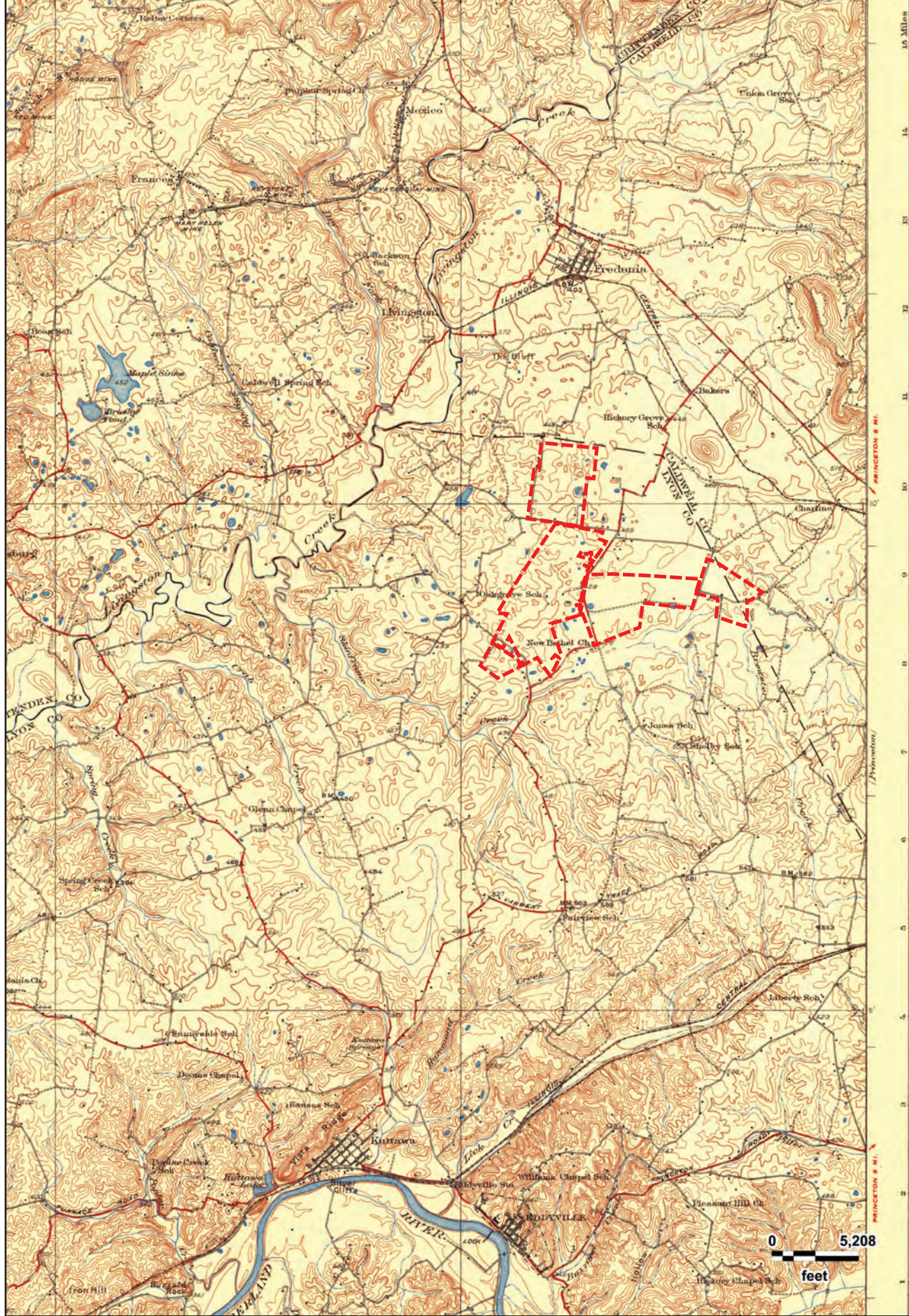


Scale: 1 : 24600.



Figure 3 – 1931 Historical Topographic Map

Source: GeoSearch



Ashwood Site
Eddyville, KY (1931)



Figure 4 – 1954 Historical Topographic Map

Source: GeoSearch



5 2 MI TO KY 278 KUTTAWA 6 MI (EDDYVILLE) 230' SCALE 1:24000

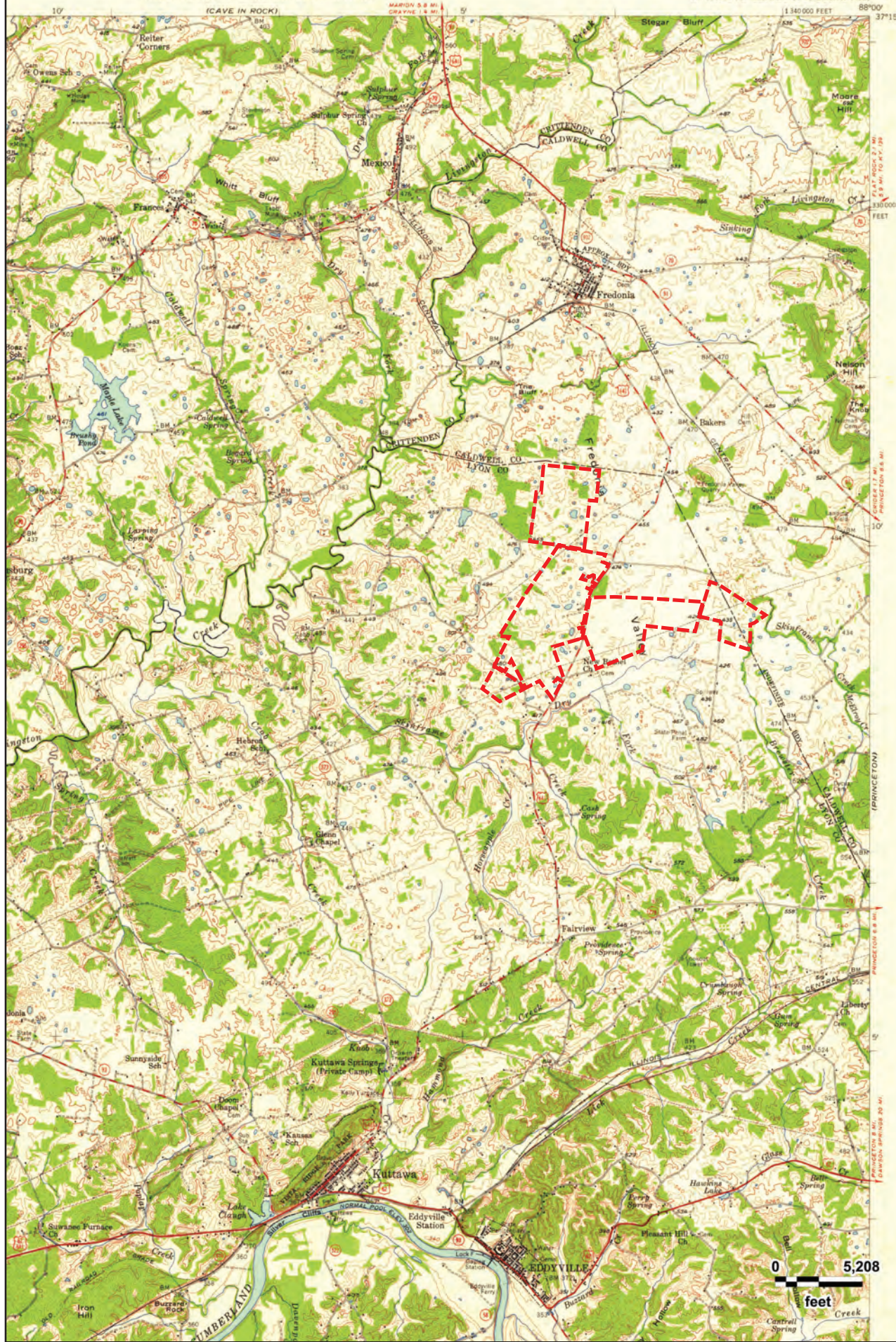


Ashwood Site
Fredonia, KY (1954)



Figure 5 – 1955 Historical Topographic Map

Source: GeoSearch

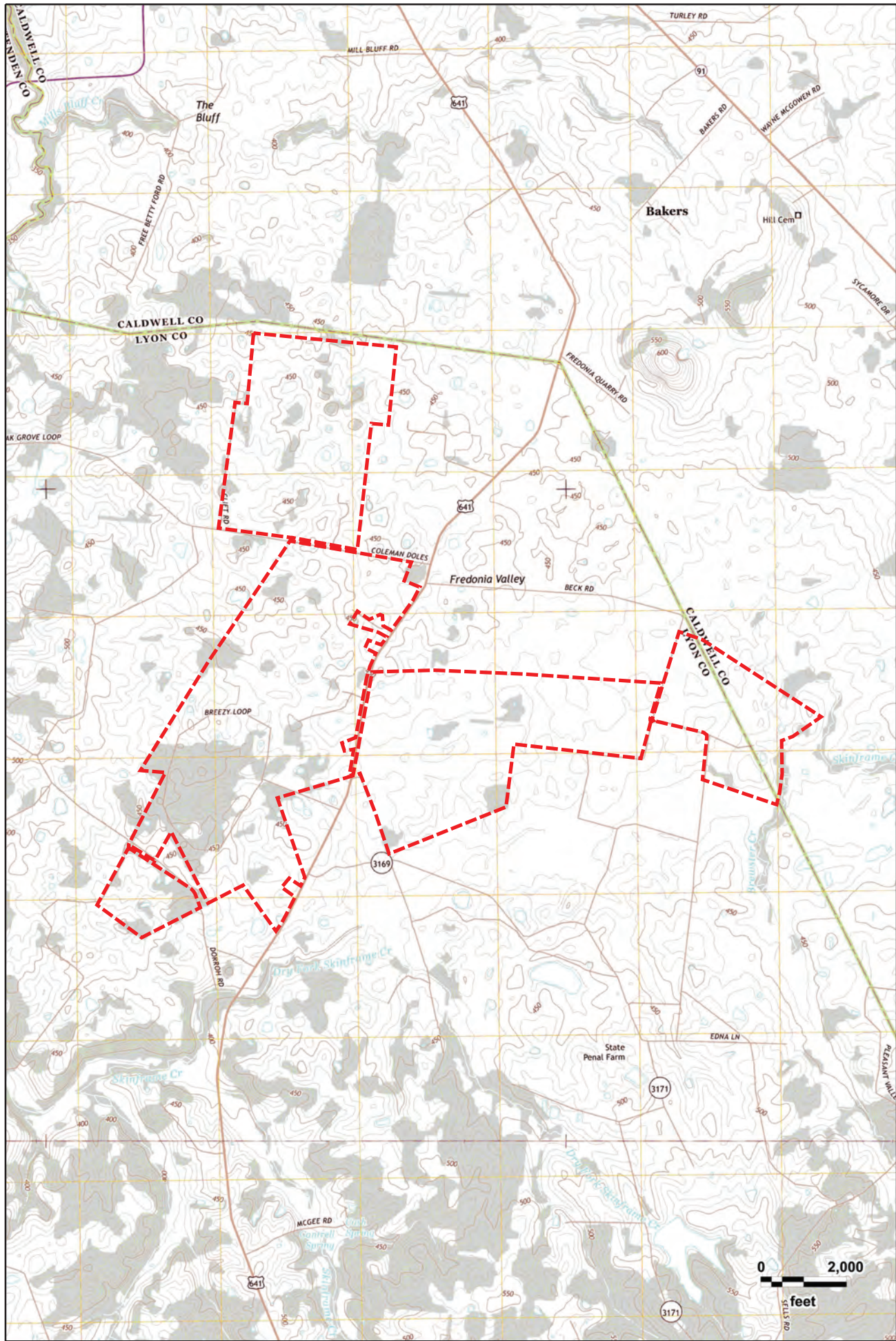


Ashwood Site
Eddyville, KY (1955)



Figure 6 – 2013 Historical Topographic Map

Source: GeoSearch



Ashwood Site
 Fredonia, KY (2013), Eddyville, KY (2013)



Figure 7 – 1936 Aerial Photograph

Source: GeoSearch



Ashwood Site
TVA
1936

GeoSearch

Figure 8 – 1952 Aerial Photograph

Source: GeoSearch



Ashwood Site
USGS
02/27/1952



Figure 9 – 1952 (Alternate) Aerial Photograph

Source: GeoSearch

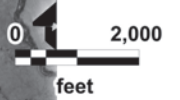


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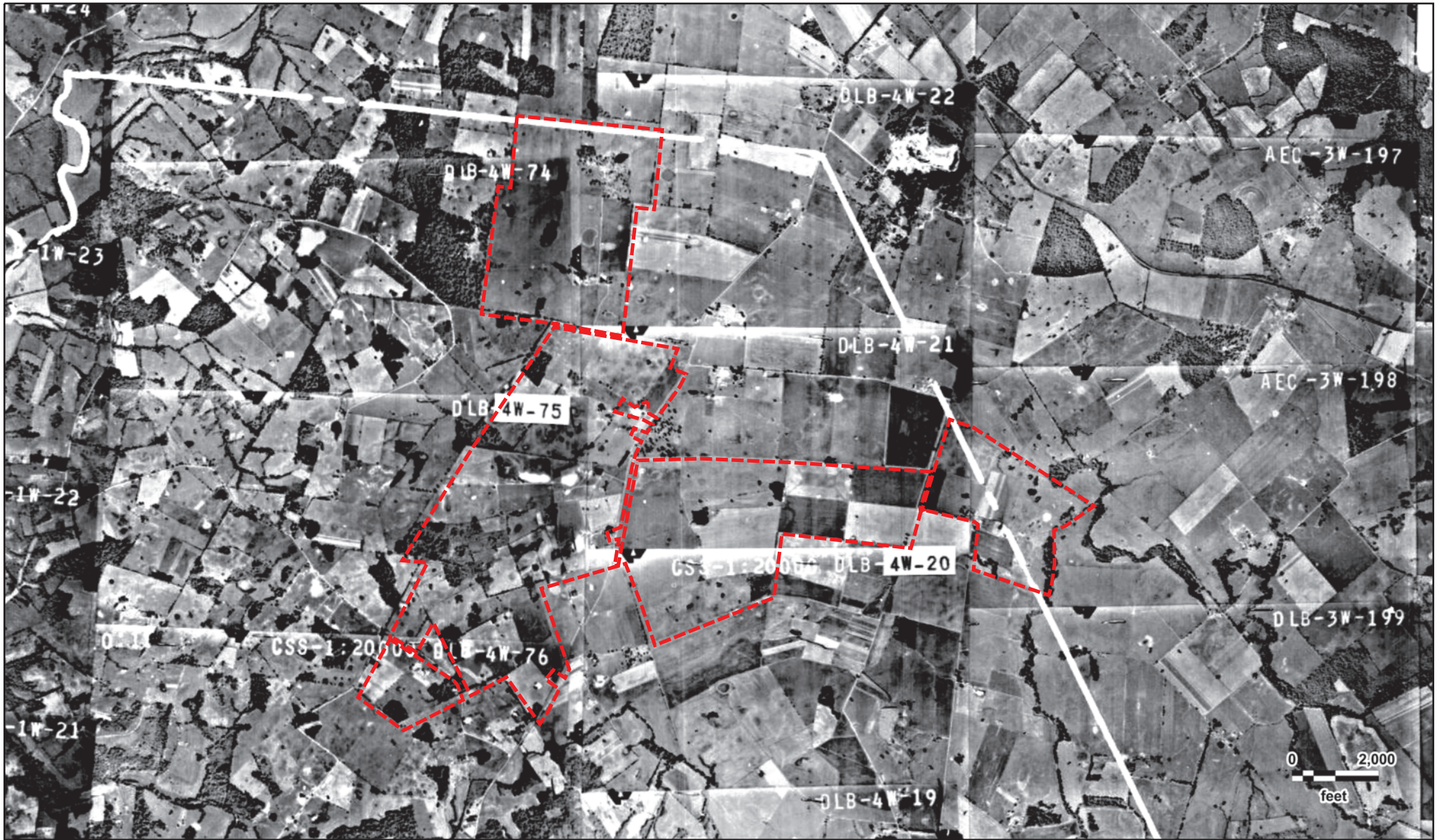


Ashwood Site
USGS
02/27/1952



Figure 10 – 1959 Aerial Photograph

Source: GeoSearch



Ashwood Site
ASCS
10/16/1959

GeoSearch

Figure 11 – 1959 (Alternate) Aerial Photograph

Source: GeoSearch



Figure 12 – 1965 Aerial Photograph

Source: GeoSearch

Figure 13 – 1973 Aerial Photograph

Source: GeoSearch



Ashwood Site
ASCS
05/16/1973



Figure 14 – 1973 (Alternate) Aerial Photograph

Source: GeoSearch

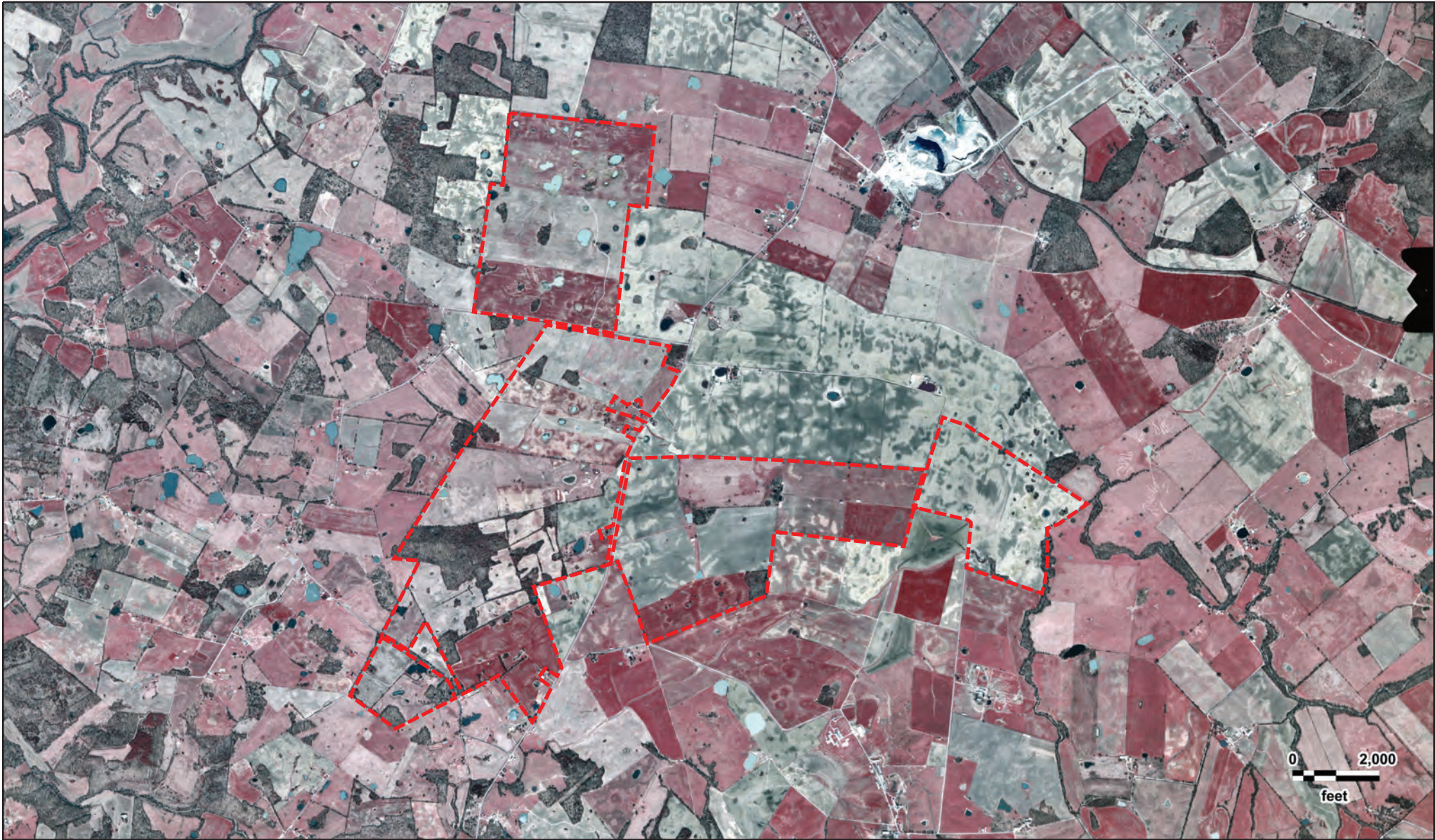


Ashwood Site
ASCS
08/22/1973

GeoSearch

Figure 15 – 1983 Aerial Photograph

Source: GeoSearch



Ashwood Site
USGS
03/25/1983

GeoSearch

Figure 16 – 1993 Aerial Photograph

Source: GeoSearch



Ashwood Site
USGS
03/06/1993

GeoSearch

Figure 17 – 1998 Aerial Photograph

Source: GeoSearch

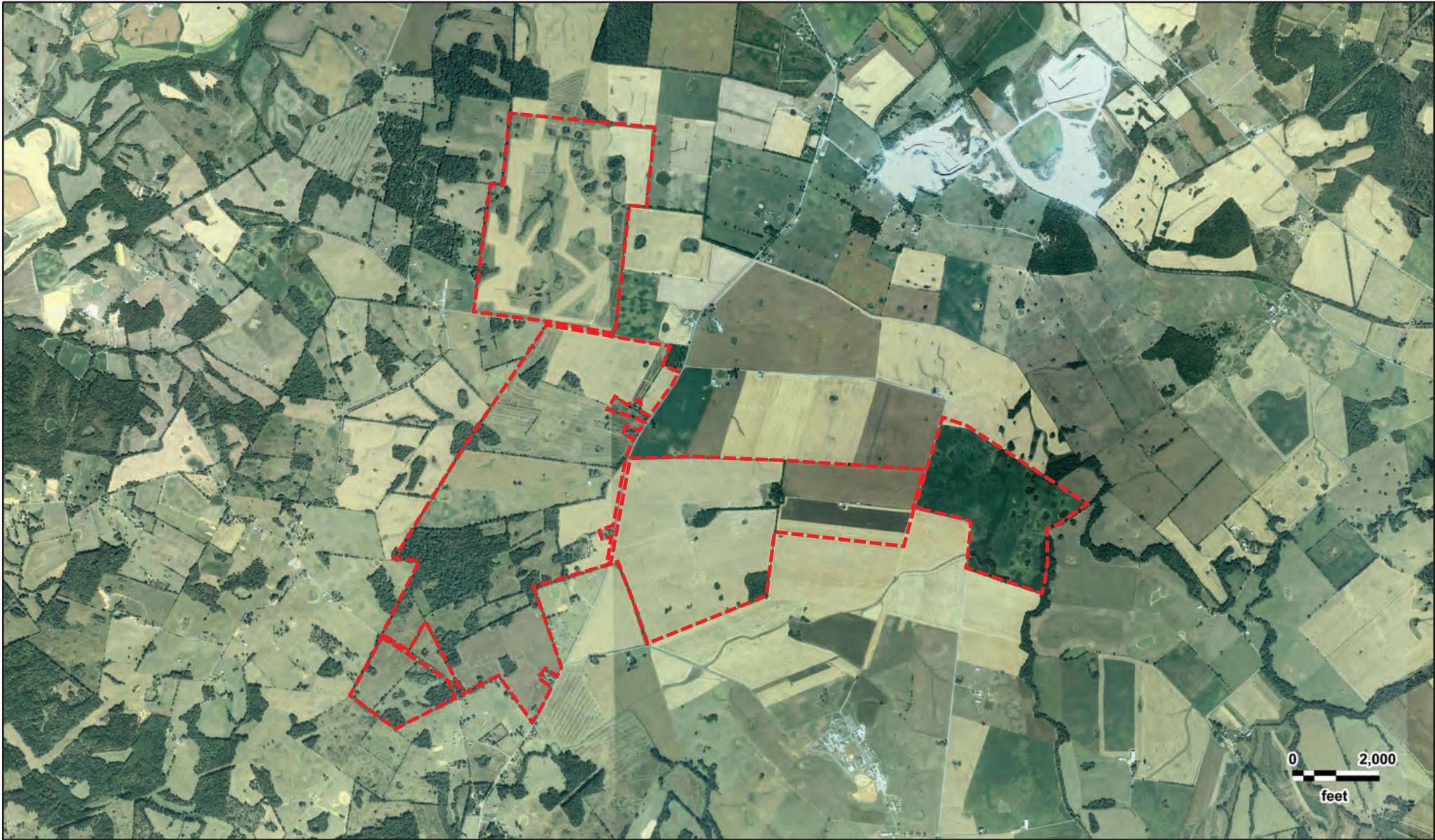


Ashwood Site
USGS
11/21/1998

GeoSearch

Figure 18 – 2004 Aerial Photograph

Source: GeoSearch



Ashwood Site
USDA
2004

GeoSearch

Figure 19 – 2006 Aerial Photograph

Source: GeoSearch



Ashwood Site
USDA
2006

GeoSearch

Figure 20 – 2008 Aerial Photograph

Source: GeoSearch



Ashwood Site
USDA
2008

GeoSearch

Figure 21 – 2010 Aerial Photograph

Source: GeoSearch

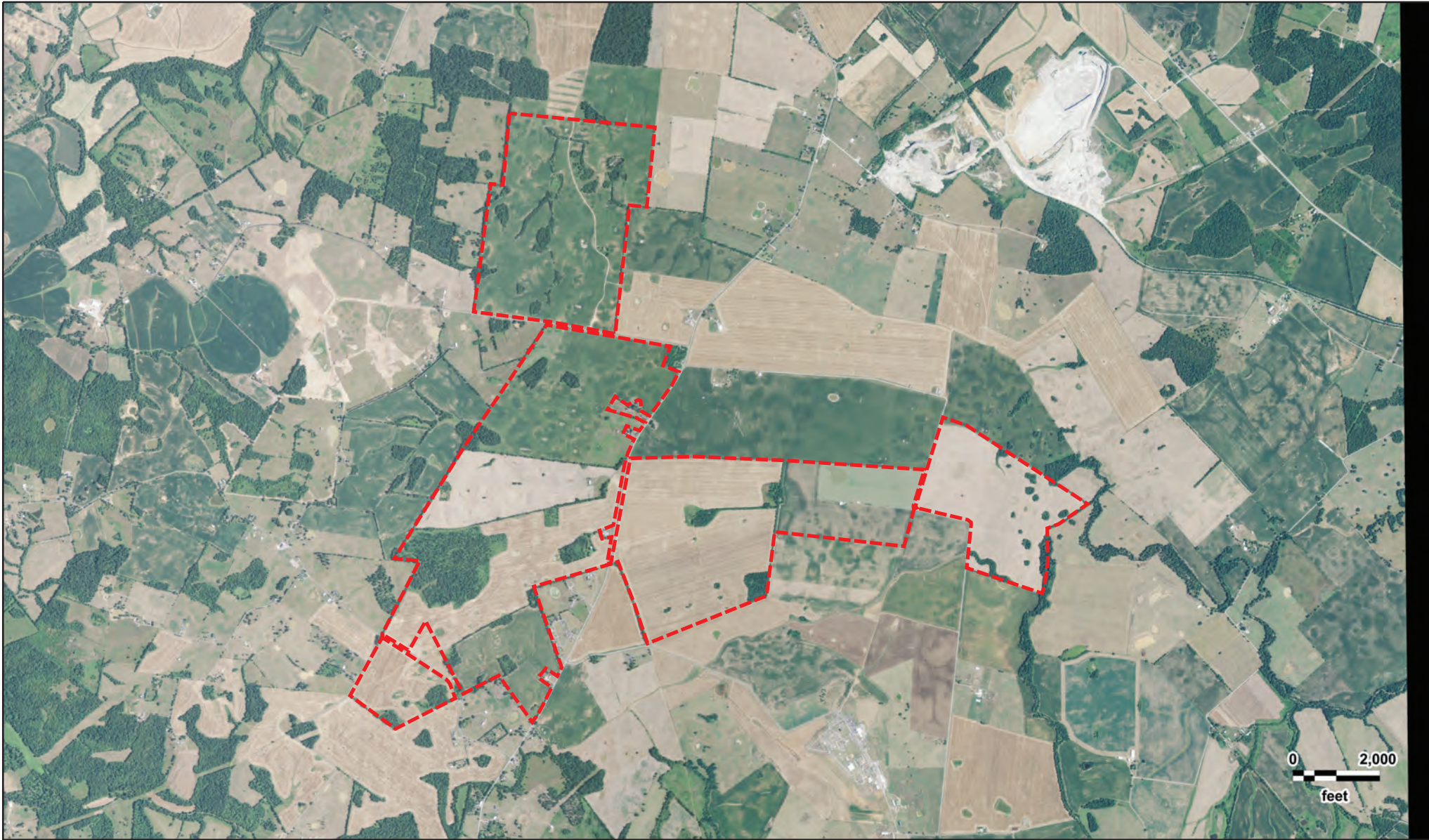


Ashwood Site
USDA
2010

GeoSearch

Figure 22 – 2012 Aerial Photograph

Source: GeoSearch

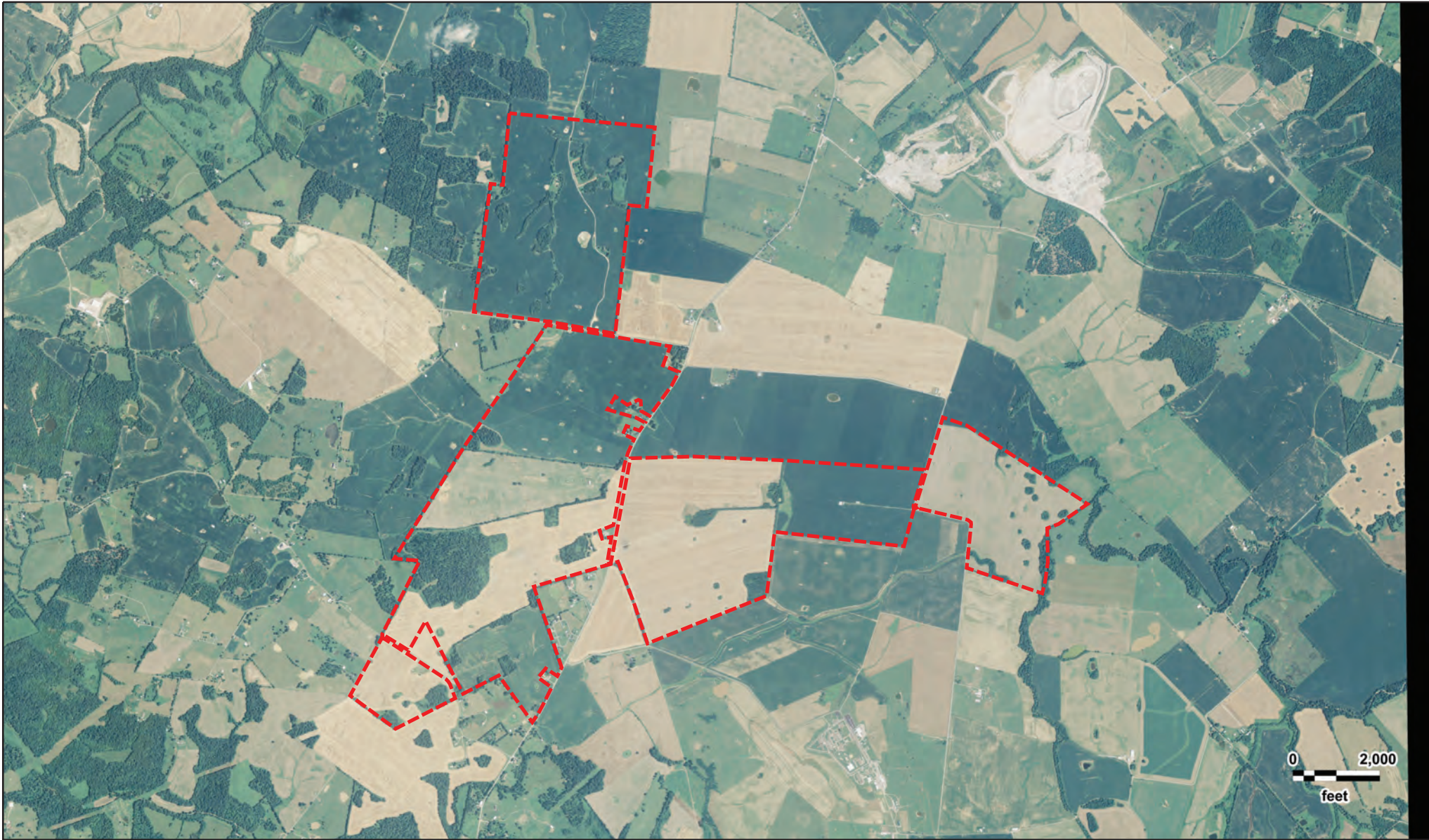


Ashwood Site
USDA
2012

GeoSearch

Figure 23 – 2014 Aerial Photograph

Source: GeoSearch



Ashwood Site
USDA
2014

GeoSearch

Figure 24 – 2016 Aerial Photograph

Source: GeoSearch



Ashwood Site
USDA
2016

GeoSearch

APPENDIX A
SCOPE OF WORK AND USER QUESTIONNAIRE



Scope of Work

The environmental assessment of a 1717-acre solar power installation in the Lyon and Caldwell County, Kentucky. This evaluation area includes the following tracts identified on a project area map provided electronically to SMG on September 20, 2018: parcels 38-5, 38-13, 38-15, 38-16, 39-1, 39-2, 39-6, 38-14, 38-20, 49-5 and 49-6. As requested previously by Ashwood Solar I, LLC, this assessment will not evaluate residences within the property area but will include farm structures and outbuildings. The assessment will be conducted in general accordance with ASTM Standard E1527-13, which is compliant with the "All Appropriate Inquiries" regulations found at 40 CFR Part 312 and is considered representative of good commercial and customary practice for a Phase I Environmental Site Assessment.

The purpose of the assessment is to identify **recognized environmental conditions**, as defined by ASTM E1527-13. **Recognized environmental conditions means the presence or likely presence of hazardous substances or petroleum products in, on or at the subject property:** 1. due to any release to the environment; 2. under conditions indicative of a release to the environment; or 3. under conditions that pose a material threat of a future release to the environment. It does not include de minimis conditions, which are not considered a threat to human health or the environment and would not be subject to enforcement action by regulatory authorities.

The assessment will consist of a review of reasonably ascertainable public information; interviews of people having knowledge of site activities and history and adjacent property activities and, if necessary, adjacent property use; and a site reconnaissance. No samples of any material or media will be collected for laboratory analysis and no other field work will be undertaken in the assessment.

A report will be prepared that will identify the sources of information used, data gaps, findings of the assessment, conclusions with respect to potential site impact and recommendations, if any, regarding further investigative activities. The report will be delivered electronically. **If you also require a bound report, we will provide one for an additional fee of \$50.00 for each copy.**

The environmental assessment will address the following matters to the extent considered appropriate.

a. Current and past property use and occupancy dating back to when the property was first developed, or to 1940, whichever is earlier. This evaluation will be based upon readily available public information including interviews with persons having knowledge of site activities, and at least one of the following sources: fire insurance maps, aerial photographs, property tax files, city directories, USGS Topographic Maps, a **client supplied chain-of-title** or other appropriate and available historical source.

b. Current and past uses on the property of hazardous substances or petroleum products; waste management and disposal activities associated with these materials; and corrective actions or responses to release of these materials on the property. If hazardous substances or petroleum products are known or reported to have been used, an inspection for evidence of obvious leaks or spills will take place.

Lexington

1405 Mercer Road
Lexington, KY 40511
859-231-8936
859-231-8997 fax

Louisville

1860 B Williamson Court
Louisville, KY 40223
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502-587-6572 fax



c. Reasonably ascertainable and practically reviewable public documents or computer databases of federal, tribal, state and local records of reported releases or threatened releases and activities or conditions likely to cause or contribute to releases of hazardous substances or petroleum products on the subject property and properties nearby. This review will identify landfills or other disposal activities; chemical or petroleum storage tanks; hazardous waste management activities; reported spills and clean ups; National Priority List and NPL delisted sites; ERNS listed sites; CERCLIS listed and formerly listed CERCLA sites; RCRA listed facilities and facilities subject to corrective action; registered and leaking underground storage tanks sites. If potential sources of site impact are identified, available regulatory agency files will be requested and reviewed, when practical, for an additional fee **on a time and materials basis**. Available federal, tribal, state or local files **will only be reviewed for the subject property and adjoining properties**.

d. Source of drinking water for the property and the location and description of the type of wells on the property. Wastewater discharges on or adjacent to the property, including site sewage disposal, any on-site wastewater disposal or septic systems and potentially contaminated stormwater runoff.

e. The presence of existing transformers or other equipment suspected or known to contain PCB's.

f. The presence of previous or existing underground or above ground fuel storage tanks, as evidenced by obvious indications such as vent pipes, fill caps or dispensing pumps will be identified. No subsurface or geophysical investigative techniques will be employed for this work scope.

g. The obvious presence or owner/occupant indicated presence of contaminated fill materials, pits, ponds, lagoons or sumps.

Presumptions:

This agreement presumes that access to the property will be provided by the owner and/or occupant and that the owner and/or occupant will be available for interview. Additionally, the **User** of this report will provide title information for the property and any known information regarding known or suspected environmental problems associated with the property, including:

- **an unusually low appraisal or sale price,**
- **environmental liens or other formal restrictions on use;**
- **current or prior sources of contamination or remediation activities.**

The proposed scope of work **does not include** evaluation of the property for:

- jurisdictional wetlands or floodplains;
- radon, lead paint, or other health or safety concerns;
- biological agents, endangered species, ecological, cultural or historic resources;
- environmental compliance; or
- providing estimated costs for addressing identified releases and threatened releases of hazardous substances or petroleum products on, at, in or to the subject property.

Any additions or changes to the Work described in this letter may result in additional or changed fees for this project. Additional work may include:

- additional site visits;

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- review of available regulatory agency files that may indicate regional potential site contamination;
- site sampling and laboratory analysis that may be required to define potential site contamination and establish estimates for site remediation.

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ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

A. Property Identity/Name: Parcel Nos. 38-5, 38-13, 38-14, 38-15,
38-16, 38-20, 39-1, 39-2, 39-6, 49-5, 49-6

B. Property Address: N/A

C. Property Owner: White, Jacobs, Gregory, Young

D. Property Use & Occupant(s): Farming; no occupants

E. Property Contact(s) with Telephone Number & email:
separately provided



F. Property Description (parcel, lot, acreage) and Building(s) present (type and size):

See A. Only buildings are isolated farm structures,
some not actively used. Total acreage is
approximately 1,700.

G. Person(s) completing questionnaire: David Savage

Title or User Association: Ashwood Solar I, LLC (lessor)
Vice President

H. Date Completed: 11/20/18

According to ASTM E1527-13, the User should provide answers to the following questions to the extent of his or her actual knowledge. Failure to do so or conduct the referenced inquiries could result in a determination that "all appropriate inquiries" is not complete. Use the Comments section at the end of this document to provide any additional supporting information.

(1.) Did a search of recorded land title records (or judicial records where appropriate) identify any **environmental liens** filed or recorded against the property under federal, tribal, state or local law? Are you aware of any environmental clean-up liens filed against the property due to the presence of hazardous substances or petroleum products on the property? **Y/N**. If yes, please identify and describe.

User has not conducted a lien search.



(2.) Did a search of recorded land title records (or judicial records where appropriate) identify any land **activity and use limitations**, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? Are you aware of any **deed restrictions** controlling the use of the property due to the presence of hazardous substances or petroleum products on the property? **Y/N**. If yes, please identify and describe.

User has not conducted a lien search

(3.) 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? **Y/N**. If yes, please identify and describe.

(4.) Does the **purchase price** being paid for this property reasonably **reflect the fair market value** of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? **Y/N**. If yes, please identify and describe.

N/A.

(5.) 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 each item below, identify **Y/N**. If yes, please identify and describe.

- (a.) Do you know the past uses of the property? ✓
- (b.) Do you know of specific chemicals that are present or once were present at the property? ✓
- (c.) Do you know of spills or other chemical releases that have taken place at the property? ✓
- (d.) Do you know of any environmental cleanups that have taken place at the property? ✓
- (e.) Are you aware of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances or petroleum products on the property? ✓
- (f.) Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? ✓

(6.) Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property? **Y/N**. If yes, please identify and describe.

(7.) Has a **chain of title** been completed for the property that extends back in time prior to any site development and at least before 1940? If so, please provide a copy. If not, this will need to be completed and provided to SMG for review and inclusion in the environmental site assessment report.

User has not compiled a chain of title

Are you aware of any prior Environmental Studies or Reports regarding the property? **Y/N**. If yes, please provide a copy.

APPENDIX B
SITE PHOTOGRAPHS



1. Looking northeast across a soybean field in the eastern portion of the subject site at Parcel 49-5.



2. A typical sinkhole free of trash and debris on Parcel 49-5 looking east to adjacent agricultural lands.



3. Looking west across Parcel 49-6 with a metal red barn and wooden frame barn in the middle of the parcel and a high voltage electric line crossing the parcel.



4. Inside the red metal framed barn on Parcel 49-6. The concrete floor was observed to be in good condition with *de minimis* staining observed.



5. A wood framed barn on Parcel 49-6 housing farming implements.



6. Solid waste discarded in a sinkhole on Parcle 49-6 including scrap lumber, a tire and metal cans.



7. Looking northwest across Parcel 49-6 with Parcel 38-20 to the west and offsite agricultural lands to the north.



8. Looking west across Parcel 38-20 from the eastern border with Parcel 49-6.



9. A water well discharge pipe feeding a pond on Parcel 38-20 as identified by the owners representative.



10. A wood framed barn on Parcel 38-20 housing piping and hay bales east of US Route 641.



11. Looking from the eastern portion of Parcel 38-20 west across US Route 641 at the western portion of Parcel 38-20 which includes five silos, a wood framed barn and other outbuildings.



12. Looking south at the barn and silos on the western portion of Parcel 38-20.



13. Inside the barn on the western portion of Parcel 38-20. SMG observed an old boat and scrap materials inside the barn.



14. A collapsed outbuilding on Parcel 38-20 typical of other collapsed buildings in forested areas throughout the subject site.



15. Looking west across a pond on Parcel 39-1 at the southernmost portion of the subject site. A residence was observed to the northwest of Parcel 39-1 with agricultural land on all sides.



16. Looking northeast across a harvested field on Parcel 39-2.



17. Solid waste in a sinkhole on Parcel 39-2. Scrap metal, lumber, shingles and carpet were observed.



18. Soil mounds in a depression on Parcel 39-2.



19. Looking south across Parcel 39-6 sown with winter cover crops.



20. Scrap metal in a sinkhole on Parcel 39-6.



21. Looking north from the southern border of Parcel 39-6 at a depression and residence to the right of frame.



22. Dump site in the woods south of Parcel 39-6. SMG observed discarded 55-gallon drums, 5-gallon buckets, tires, and scrap metal. Based on local relief the subject site drains towards this adjacent property and is unlikely to represent an REC to the subject site.



23. Looking west at a large forested area across Parcels 38-13 and 39-2. SMG observed numerous sinkholes in this forested area but no obvious signs of spills or releases.



24. Looking east across Parcel 38-13 with Parcel 38-20 beyond.



25. Looking west at Parcel 38-14 from US Route 641 with the red metal framed barn left of view.



26. Inside the metal frame barn on Parcel 38-14 with an empty oil drum, farm implements, a portable generator, asphalt patch bags and a truck bed fuel tank observed.



27. Additional stored materials including metal 5-gallon buckets, scrap metal and building materials inside the metal barn on Parcel 38-14.



28. Looking west across Parcel 38-14 from the barn.



29. Scrap metal and discarded concrete materials in the wooded border between Parcel 38-14 and 38-13.



30. Discarded appliances and a metal cavity representing a suspected REC in a sinkhole on Parcel 38-14.



31. Looking west across Parcel 38-15 with the wood framed barn to the right of view.



32. Inside the wood framed barn on Parcel 38-15. SMG observed hay bales, lumber, windows, farm implements and parts, a welder, pails of cut nails and two empty fuel tanks



33. Two fuel tanks observed in the barn on Parcel 38-15. No odors or staining indicative of spills or releases were observed.



34. Looking north at the irrigation boom center pivot in Parcel 38-15 and 38-16.



35. An electrical box and PVC pipe identified by the owners representative as being part of the electric conduit for the irrigation system on Parcels 38-15 and 38-16.



36. Looking northwest along the western border of Parcel 38-15 at a natural gas pipeline marker with agricultural land beyond.



37. Looking east across Parcel 38-16 with Coleman Doles Road left of frame.



38. Looking north across Parcel 38-5 where an onsite gravel road starts at Coleman Doles Road.



39. A spicket at a concrete block water structure near a pond on Parcel 38-5.



40. Looking across a pond typical of the forested depressions on Parcel 38-5.



41. Looking north from Parcel 38-5 at the northernmost border of the subject site at an adjacent agricultural field.



42. Looking west from Parcel 38-5 at an adjacent agricultural field.

APPENDIX C
ENVIRONMENTAL DATABASE REPORT

E RecSearch Report

[NEW: GeoLens by Geosearch](#)

Target Property:
Ashwood Site
Fredonia, Lyon County, Kentucky 42038

Prepared For:
Smith Management Group

Order #: 117514
Job #: 266057
Project #: 2018-6584
Date: 11/08/2018

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Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR § 312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR § 312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

The information provided in this report was obtained from a variety of public sources. GeoSearch cannot ensure and makes no warranty or representation as to the accuracy, reliability, quality, errors occurring from data conversion or the customer's interpretation of this report. This report was made by GeoSearch for exclusive use by its clients only. Therefore, this report may not contain sufficient information for other purposes or parties. GeoSearch and its partners, employees, officers And independent contractors cannot be held liable For actual, incidental, consequential, special or exemplary damages suffered by a customer resulting directly or indirectly from any information provided by GeoSearch.

Target Property Summary

Target Property Information

Ashwood Site

Fredonia, Kentucky 42038

Coordinates

Area centroid (-88.057045, 37.1549464)

452 feet above sea level

USGS Quadrangle

Fredonia, KY

Geographic Coverage Information

County/Parish: Lyon (KY) , Caldwell (KY)

ZipCode(s):

Eddyville KY: 42038

Fredonia KY: 42411

Princeton KY: 42445

Database Summary

FEDERAL LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|---------------------------|-----------|-------------|-----------------------|
| EMERGENCY RESPONSE NOTIFICATION SYSTEM | ERNSKY | 0 | 0 | TP/AP |
| FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES | EC | 0 | 0 | TP/AP |
| LAND USE CONTROL INFORMATION SYSTEM | LUCIS | 0 | 0 | TP/AP |
| RCRA SITES WITH CONTROLS | RCRASC | 0 | 0 | TP/AP |
| RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR | RCRAGR04 | 0 | 0 | 0.1250 |
| RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR | RCRANGR04 | 0 | 0 | 0.1250 |
| FEMA OWNED STORAGE TANKS | FEMAUST | 0 | 0 | 0.2500 |
| BROWNFIELDS MANAGEMENT SYSTEM | BF | 0 | 0 | 0.5000 |
| DELISTED NATIONAL PRIORITIES LIST | DNPL | 0 | 0 | 0.5000 |
| NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES | NLRRCRAT | 0 | 0 | 0.5000 |
| RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES | RCRAT | 0 | 0 | 0.5000 |
| SUPERFUND ENTERPRISE MANAGEMENT SYSTEM | SEMS | 0 | 0 | 0.5000 |
| SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY | SEMSARCH | 0 | 0 | 0.5000 |
| NATIONAL PRIORITIES LIST | NPL | 0 | 0 | 1.0000 |
| NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES | NLRRCRAC | 0 | 0 | 1.0000 |
| PROPOSED NATIONAL PRIORITIES LIST | PNPL | 0 | 0 | 1.0000 |
| RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES | RCRAC | 0 | 0 | 1.0000 |
| RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES | RCRASUBC | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|-------------------------|-----------|-------------|-----------------------|
| AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM | AIRSAFS | 0 | 0 | TP/AP |
| BIENNIAL REPORTING SYSTEM | BRS | 0 | 0 | TP/AP |
| CERCLIS LIENS | SFLIENS | 0 | 0 | TP/AP |
| CLANDESTINE DRUG LABORATORY LOCATIONS | CDL | 0 | 0 | TP/AP |
| EPA DOCKET DATA | DOCKETS | 0 | 0 | TP/AP |
| ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION | ECHOR04 | 0 | 0 | TP/AP |

Database Summary

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|------------------------------|-----------|-------------|-----------------------|
| FACILITY REGISTRY SYSTEM | FRSKY | 0 | 0 | TP/AP |
| HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM | HMIRSR04 | 0 | 0 | TP/AP |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS) | ICIS | 0 | 0 | TP/AP |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM | ICISNPDES | 0 | 0 | TP/AP |
| MATERIAL LICENSING TRACKING SYSTEM | MLTS | 0 | 0 | TP/AP |
| NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM | NPDESR04 | 0 | 0 | TP/AP |
| PCB ACTIVITY DATABASE SYSTEM | PADS | 0 | 0 | TP/AP |
| PERMIT COMPLIANCE SYSTEM | PCSR04 | 0 | 0 | TP/AP |
| SEMS LIEN ON PROPERTY | SEMCLIENS | 0 | 0 | TP/AP |
| SECTION SEVEN TRACKING SYSTEM | SSTS | 0 | 0 | TP/AP |
| TOXIC SUBSTANCE CONTROL ACT INVENTORY | TSCA | 0 | 0 | TP/AP |
| TOXICS RELEASE INVENTORY | TRI | 0 | 0 | TP/AP |
| ALTERNATIVE FUELING STATIONS | ALTFUELS | 0 | 0 | 0.2500 |
| HISTORICAL GAS STATIONS | HISTPST | 0 | 0 | 0.2500 |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS | ICISCLEANERS | 0 | 0 | 0.2500 |
| MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE | MSHA | 0 | 0 | 0.2500 |
| MINERAL RESOURCE DATA SYSTEM | MRDS | 0 | 0 | 0.2500 |
| OPEN DUMP INVENTORY | ODI | 0 | 0 | 0.5000 |
| SURFACE MINING CONTROL AND RECLAMATION ACT SITES | SMCRA | 0 | 0 | 0.5000 |
| URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES | USUMTRCA | 0 | 0 | 0.5000 |
| DEPARTMENT OF DEFENSE SITES | DOD | 0 | 0 | 1.0000 |
| FORMER MILITARY NIKE MISSILE SITES | NMS | 0 | 0 | 1.0000 |
| FORMERLY USED DEFENSE SITES | FUDS | 0 | 0 | 1.0000 |
| FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM | FUSRAP | 0 | 0 | 1.0000 |
| RECORD OF DECISION SYSTEM | RODS | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |

Database Summary

STATE (KY) LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---|-----------------------------|------------------|--------------------|------------------------------|
| ENGINEERING CONTROLS REGISTRY | EC | 0 | 0 | TP/AP |
| INSTITUTIONAL CONTROLS REGISTRY | IC | 0 | 0 | TP/AP |
| REGISTERED UNDERGROUND STORAGE TANKS | RUST | 0 | 0 | 0.2500 |
| BROWNFIELD PROPERTIES | BF | 0 | 0 | 0.5000 |
| HISTORIC LANDFILLS/ OLD TOWN DUMPS | HISTLFDUMPS | 0 | 0 | 0.5000 |
| LANDFILL AND SOLID WASTE DISPOSAL SITES | LFSWDS | 0 | 0 | 0.5000 |
| LEAKING UNDERGROUND STORAGE TANKS | LUST | 0 | 0 | 0.5000 |
| VOLUNTARY CLEANUP PROGRAM SITES | VCP | 0 | 0 | 0.5000 |
| STATE LEAD PRIORITY LIST | SLPL | 1 | 0 | 1.0000 |
| SUB-TOTAL | | 1 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---------------------------------------|------------------------|------------------|--------------------|------------------------------|
| CLANDESTINE DRUG LABORATORY LOCATIONS | CDL | 0 | 0 | TP/AP |
| SPILLS LISTING | SPILLS | 0 | 0 | TP/AP |
| PERMITTED MINE BOUNDARIES | MINES | 0 | 0 | 0.2500 |
| SUB-TOTAL | | 0 | 0 | |

Database Summary

TRIBAL LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---|--------------------------|------------------|--------------------|------------------------------|
| UNDERGROUND STORAGE TANKS ON TRIBAL LANDS | USTR04 | 0 | 0 | 0.2500 |
| LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS | LUSTR04 | 0 | 0 | 0.5000 |
| OPEN DUMP INVENTORY ON TRIBAL LANDS | ODINDIAN | 0 | 0 | 0.5000 |
| SUB-TOTAL | | 0 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---------------------|---------------------------|------------------|--------------------|------------------------------|
| INDIAN RESERVATIONS | INDIANRES | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |
| TOTAL | | 1 | 0 | |

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|-----------|----------|
| AIRSAFS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| BRS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| CDL | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| DOCKETS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| EC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ECHOR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ERNSKY | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| FRSKY | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| HMIRSR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ICIS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ICISNPDES | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| LUCIS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| MLTS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| NPDES04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| PADS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| PCSR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| RCRASC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SEMSLIENS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SFLIENS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SSTS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| TRI | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| TSCA | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| RCRAGR04 | 0.1250 | 0 | 0 | NS | NS | NS | NS | 0 |
| RCRANGR04 | 0.1250 | 0 | 0 | NS | NS | NS | NS | 0 |
| ALTFUELS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| FEMAUST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| HISTPST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| ICISCLEANERS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| MRDS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| MSHA | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| BF | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| DNPL | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| NLRRCRAT | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| ODI | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| RCRAT | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |

Database Radius Summary

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|----------|-------|
| SEMS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SEMSARCH | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SMCRA | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| USUMTRCA | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| DOD | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| FUDS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| FUSRAP | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NLRRCRAC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NMS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NPL | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| PNPL | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RCRAC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RCRASUBC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RODS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Database Radius Summary

STATE (KY) LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|--------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|-----------|----------|
| CDL | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| EC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| IC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SPILLS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| MINES | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| RUST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| BF | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| HISTLFDUMPS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| LFSWDS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| LUST | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| VCP | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SLPL | 1.0000 | 0 | 0 | 0 | 0 | 1 | NS | 1 |
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|------------------------------|-------------------------|------------------------------|----------------------------|----------------------------|--------------------------|--------------------|--------------|
| USTR04 | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| LUSTR04 | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| ODINDIAN | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| INDIANRES | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |

| | | | | | | | | |
|------------------|--|----------|----------|----------|----------|----------|----------|----------|
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------|--|----------|----------|----------|----------|----------|----------|----------|

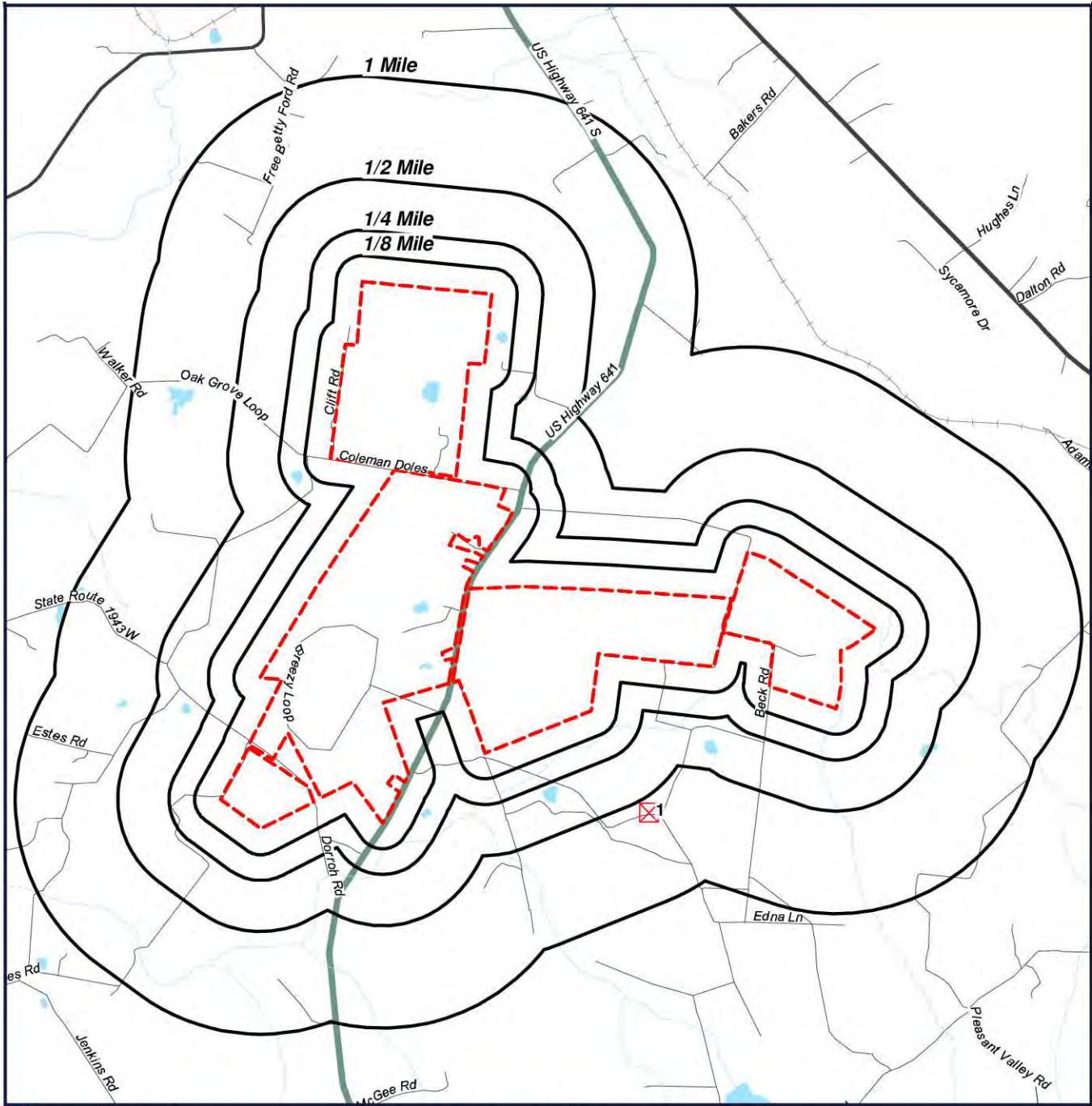
| | | | | | | | | |
|--------------|--|----------|----------|----------|----------|----------|----------|----------|
| TOTAL | | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
|--------------|--|----------|----------|----------|----------|----------|----------|----------|

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



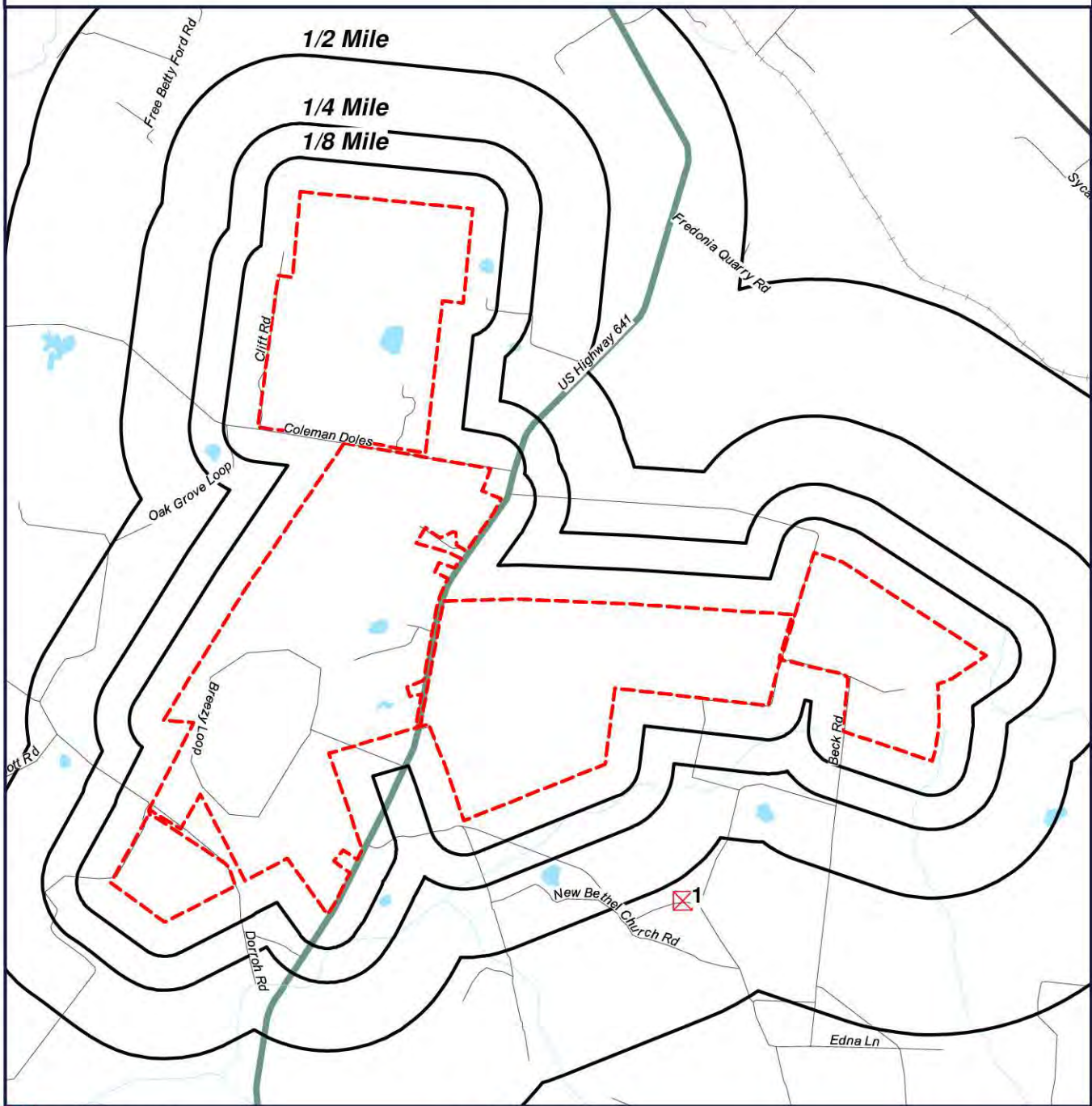
- Target Property (TP)
- SLPL

Ashwood Site
Fredonia, Kentucky
42038



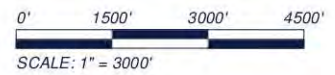
[Click here to access Satellite view](#)

Radius Map 2



- Target Property (TP)
- SLPL

Ashwood Site
Fredonia, Kentucky
42038



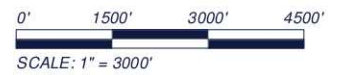
[Click here to access Satellite view](#)

Ortho Map



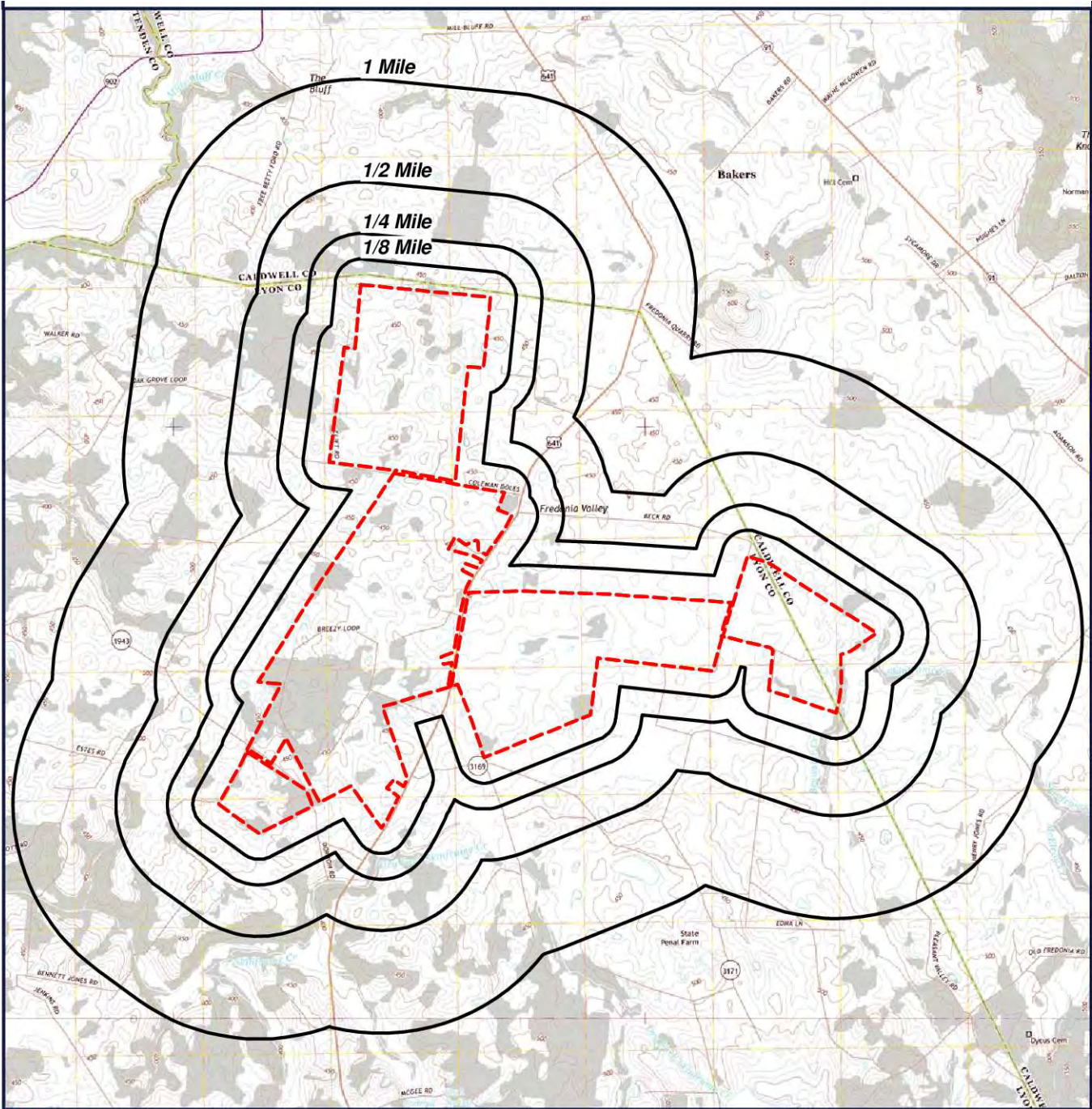
- Target Property (TP)
- SLPL


**Quadrangle(s): Fredonia
Ashwood Site
Fredonia, Kentucky
42038**



[Click here to access Satellite view](#)

Topographic Map



 Target Property (TP)

Quadrangle(s): Fredonia
Source: USGS, 04/16/2013
Ashwood Site
Fredonia, Kentucky
42038



0' 2000' 4000' 6000'
SCALE: 1" = 4000'

[Click here to access Satellite view](#)

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

| Map ID# | Database Name | Site ID# | Relative Elevation | Distance From Site | Site Name | Address | PAGE # |
|-------------------|---------------|----------|------------------------|--------------------------------|--|---|--------------------|
| 1 | SLPL | 2794SLPL | Lower (430 ft.) | 0.584 mi. SE (3084 ft.) | WESTERN KENTUCKY CORRECTIONAL COMPLEX | 374 NEW BETHEL CHURCH RD, FREDONIA, KY 42411 | 16 |

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 452 ft.

NOTE: Standard environmental records are displayed in **bold**.

EQUAL/HIGHER ELEVATION

No Records Found

LOWER ELEVATION

| Map ID# | Database Name | Elevation | Site Name | Address | Page # |
|-------------------|---------------|-----------|--|---|--------------------|
| 1 | SLPL | 430 ft. | WESTERN KENTUCKY CORRECTIONAL COMPLEX | 374 NEW BETHEL CHURCH RD, FREDONIA, KY 42411 | 16 |

State Lead Priority List (SLPL)

MAP ID# 1

Distance from Property: 0.584 mi. (3,084 ft.) SE
Elevation: 430 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 2794SLPL

AI ID: 2794

NAME: WESTERN KENTUCKY CORRECTIONAL COMPLEX

ADDRESS: 374 NEW BETHEL CHURCH RD
FREDONIA, KY 42411

COUNTY: LYON

REGULATORY DESCRIPTION: PETROLEUM CLEANUP

FACILITY DETAILS

STATUS: CLOSED

CLOSURE OPTION: OPTION C RESTORED

CLOSURE DATE: 09/12/1997

SUBJECT ITEM DESIGNATION: 45839

SUBJECT ITEM DESCRIPTION:

WKCC (CLOSED: RESTORED)

STATUS: CLOSED

CLOSURE OPTION: OPTION C RESTORED

CLOSURE DATE: 01/02/1997

SUBJECT ITEM DESIGNATION: 42223

SUBJECT ITEM DESCRIPTION:

W. KY CORRECTIONAL COMPLEX (CLOSED: RESTORED)

[Back to Report Summary](#)

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

Environmental Records Definitions - FEDERAL

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 10/05/17

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

Environmental Records Definitions - FEDERAL

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR04 Enforcement and Compliance History Information

VERSION DATE: 09/01/18

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSKY Emergency Response Notification System

VERSION DATE: 04/29/18

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSKY Facility Registry System

VERSION DATE: 10/09/18

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR04 Hazardous Materials Incident Reporting System

VERSION DATE: 09/30/18

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/01/18

Environmental Records Definitions - FEDERAL

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDES04 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

PADS PCB Activity Database System

VERSION DATE: 09/14/18

Environmental Records Definitions - FEDERAL

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

PCSR04 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 03/21/18

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

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency 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

Environmental Records Definitions - FEDERAL

these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR04 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 4 includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Environmental Records Definitions - FEDERAL

RCRANGR04

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 4 includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ALTFUELS

Alternative Fueling Stations

VERSION DATE: 09/01/18

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST

FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST

Historical Gas Stations

VERSION DATE: NR

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

ICISCLEANERS

Integrated Compliance Information System Drycleaners

VERSION DATE: 09/01/18

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS

Mineral Resource Data System

VERSION DATE: 03/15/16

Environmental Records Definitions - FEDERAL

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 08/31/18

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 10/01/18

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 08/13/18

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/01/18

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

Environmental Records Definitions - FEDERAL

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 08/13/18

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 09/14/18

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.

Environmental Records Definitions - FEDERAL

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/01/18

Environmental Records Definitions - FEDERAL

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.

During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 08/13/18

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 08/13/18

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

Environmental Records Definitions - FEDERAL

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS

Record of Decision System

VERSION DATE: 08/13/18

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (KY)

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 08/14/18

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

EC Engineering Controls Registry

VERSION DATE: 08/14/18

This list of sites with engineering controls is place is provided by the Kentucky Department of Environmental Protection. Engineering controls are physical methods utilized to prevent or minimize exposure to hazardous substances remaining on-site such as barriers or caps.

IC Institutional Controls Registry

VERSION DATE: 08/14/18

This list of sites with institutional controls is place is provided by the Kentucky Department of Environmental Protection. Institutional controls are legal or administrative tools utilized to prevent exposure to potential contamination.

SPILLS Spills Listing

VERSION DATE: 09/21/18

The Kentucky Department of Environmental Protection provides this database. Information includes releases of hazardous or potential hazardous chemical/materials into the environment since 2000.

MINES Permitted Mine Boundaries

VERSION DATE: 07/11/18

A collection of approved permitted mine boundaries for surface and underground mines in Kentucky. This includes western and eastern coal fields, for active, inactive, and released permits. Data is collected from the Kentucky Geoportal an award-winning Data Clearinghouse that provides easy and convenient ways to discover and share geospatial data resources. This data set is provided by the Division of Mine Permits, Kentucky Department for Natural Resources and collected from the Kentucky Geoportal.

RUST Registered Underground Storage Tanks

VERSION DATE: 06/26/18

This list of registered underground storage tanks is provided by the Division of Waste Management Underground Storage Tank Branch of the Kentucky Department of Environmental Protection.

Environmental Records Definitions - STATE (KY)

BF Brownfield Properties

VERSION DATE: 08/15/18

This listing of brownfield properties is provided by the Kentucky Department of Environmental Protection's (DEP) Division of Waste Management. According to the DEP, during the 2012 Kentucky legislative session a law was passed to enhance programs aimed at the redevelopment of brownfields in the Commonwealth. To further support and encourage economic redevelopment of properties with real or perceived adverse environmental conditions, the Commonwealth of Kentucky implemented into law and regulation the Kentucky Brownfield Redevelopment Program. The program provides property owners and prospective property owners (who can certify that they did not cause a release or have relationships with those who did, and who develop a plan to reuse the property safely) documentation that they will not be held responsible for conducting site investigation and remediation under Kentucky Superfund laws.

HISTLFDUMPS Historic Landfills/ Old Town Dumps

VERSION DATE: 03/24/14

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

LFSWDS Landfill and Solid Waste Disposal Sites

VERSION DATE: 08/15/18

The Kentucky Department of Environmental Protection maintains this list of permitted solid waste management facilities.

LUST Leaking Underground Storage Tanks

VERSION DATE: 04/01/18

This list of leaking underground storage tanks is provided by the Kentucky Department of Environmental Protection's Corrective Action Section of the UST Branch for remediation.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 06/08/17

According to the Kentucky Department of Environmental Protection, in 2001, the Kentucky General Assembly enacted the Voluntary Environmental Remediation Act (VERA) to encourage parties to voluntarily clean up

Environmental Records Definitions - STATE (KY)

contaminated properties, which are also known as brownfields. VERA increased liability protection for participants. Consequently, the Voluntary Environmental Remediation Program (VERP) was created that allows interested parties to initiate cleanups on a property they wish to purchase and redevelop. As a result, delays and costs to clean up contaminated sites can be reduced, which can speed up redevelopment of the site. This site listing includes properties with a VERP application.

SLPL State Lead Priority List

VERSION DATE: 08/14/18

According to the Kentucky Department of Environmental Protection, the State Superfund Section addresses sites that are not eligible for the federal Superfund program. Members of this section identify sites where a release or threatened release of hazardous substances has occurred and provide oversight for the investigation and remediation of the sites, these sites are listed on the State Lead Priority List.

Environmental Records Definitions - TRIBAL

USTR04 Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/08/18

Underground storage tanks on Tribal lands located in Region 4 include the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

LUSTR04 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/08/18

Leaking underground storage tanks on Tribal lands located in Region 4 include the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.



Environmental Lien

Target Property:
Ashwood Site
Fredonia, Lyon County, Kentucky 42038

Prepared For:
Smith Management Group

Order #: 117514
Job #: 266054
Project #: 2018-6584
Date: 11/16/2018

TARGET PROPERTY SUMMARY

Ashwood Site

Fredonia, Lyon County, Kentucky 42038

USGS Quadrangle: **Fredonia, KY**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-88.066736, 37.176638), (-88.067243, 37.172133), (-88.068213, 37.172206), (-88.069552, 37.164174), (-88.063698, 37.163563), (-88.063807, 37.163354), (-88.066286, 37.160415), (-88.070341, 37.155657), (-88.074318, 37.150590), (-88.075812, 37.148677), (-88.073805, 37.148547), (-88.076762, 37.143945), (-88.076767, 37.143657), (-88.076841, 37.143620), (-88.079295, 37.140079), (-88.075715, 37.137993), (-88.071008, 37.139912), (-88.071429, 37.140805), (-88.071546, 37.140953), (-88.071738, 37.141114), (-88.076598, 37.143646), (-88.076674, 37.143659), (-88.076739, 37.143659), (-88.076732, 37.143925), (-88.074652, 37.142907), (-88.073340, 37.144760), (-88.070388, 37.140190), (-88.067573, 37.141343), (-88.064931, 37.138406), (-88.064458, 37.138953), (-88.064097, 37.139494), (-88.063406, 37.140587), (-88.064473, 37.141209), (-88.063875, 37.141789), (-88.062954, 37.141300), (-88.062612, 37.141840), (-88.064817, 37.146919), (-88.059046, 37.148273), (-88.058748, 37.148339), (-88.058183, 37.148487), (-88.056956, 37.145953), (-88.055852, 37.143349), (-88.046472, 37.146343), (-88.045826, 37.150361), (-88.035643, 37.149447), (-88.034844, 37.151814), (-88.034633, 37.151859), (-88.030628, 37.151110), (-88.030367, 37.150957), (-88.030349, 37.150840), (-88.030697, 37.148093), (-88.024752, 37.146495), (-88.024518, 37.147235), (-88.024311, 37.148469), (-88.024351, 37.150585), (-88.023453, 37.150851), (-88.021179, 37.152106), (-88.030719, 37.157043), (-88.032581, 37.157546), (-88.034702, 37.152061), (-88.034724, 37.151975), (-88.034700, 37.151905), (-88.034650, 37.151867), (-88.034853, 37.151823), (-88.034890, 37.151878), (-88.034900, 37.151995), (-88.034035, 37.154264), (-88.044980, 37.154839), (-88.052217, 37.155088), (-88.057205, 37.154974), (-88.058741, 37.148401), (-88.059043, 37.148340), (-88.058694, 37.150034), (-88.059432, 37.149925), (-88.059640, 37.150438), (-88.058544, 37.150779), (-88.057666, 37.154592), (-88.057398, 37.155319), (-88.056914, 37.156174), (-88.057784, 37.156514), (-88.057511, 37.157007), (-88.056486, 37.156714), (-88.056037, 37.157217), (-88.056738, 37.157515), (-88.059011, 37.158037), (-88.058398, 37.158858), (-88.057448, 37.158329), (-88.056571, 37.158645), (-88.056390, 37.158586), (-88.056339, 37.157934), (-88.055685, 37.157642), (-88.053932, 37.159567), (-88.053386, 37.160401), (-88.054644, 37.160807), (-88.054064, 37.162000), (-88.063733, 37.163339), (-88.063600, 37.163558), (-88.058406, 37.162797), (-88.057276, 37.170855), (-88.055906, 37.170761), (-88.055277, 37.175754), (-88.066736, 37.176638), (-88.066736, 37.176638)

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TARGET PROPERTY SUMMARY

County/Parish Covered:

Zipcode(s) Covered:

State(s) Covered:



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-5, 38-13, 38-16 & 39-1, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-5, 38-13, 38-16 & 39-1, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-14 & 49-6, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-14 & 49-6, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-15 & 39-2, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-15 & 39-2, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 38-20, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 38-20, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 39-6, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 39-6, Fredonia, KY. and find the following:

None founds



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 49-5, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 49-5, Fredonia, KY. and find the following:

None found

E RecSearch Report

[NEW: GeoLens by Geosearch](#)

Target Property:
Ashwood Site
Fredonia, Lyon County, Kentucky 42038

Prepared For:
Smith Management Group

Order #: 117514
Job #: 266057
Project #: 2018-6584
Date: 11/08/2018

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Target Property Summary

Target Property Information

Ashwood Site

Fredonia, Kentucky 42038

Coordinates

Area centroid (-88.057045, 37.1549464)

452 feet above sea level

USGS Quadrangle

Fredonia, KY

Geographic Coverage Information

County/Parish: Lyon (KY) , Caldwell (KY)

ZipCode(s):

Eddyville KY: 42038

Fredonia KY: 42411

Princeton KY: 42445

Database Summary

FEDERAL LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|---------------------------|------------------|--------------------|------------------------------|
| EMERGENCY RESPONSE NOTIFICATION SYSTEM | ERNSKY | 0 | 0 | TP/AP |
| FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES | EC | 0 | 0 | TP/AP |
| LAND USE CONTROL INFORMATION SYSTEM | LUCIS | 0 | 0 | TP/AP |
| RCRA SITES WITH CONTROLS | RCRASC | 0 | 0 | TP/AP |
| RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR | RCRAGR04 | 0 | 0 | 0.1250 |
| RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR | RCRANGR04 | 0 | 0 | 0.1250 |
| FEMA OWNED STORAGE TANKS | FEMAUST | 0 | 0 | 0.2500 |
| BROWNFIELDS MANAGEMENT SYSTEM | BF | 0 | 0 | 0.5000 |
| DELISTED NATIONAL PRIORITIES LIST | DNPL | 0 | 0 | 0.5000 |
| NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES | NLRRCRAT | 0 | 0 | 0.5000 |
| RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES | RCRAT | 0 | 0 | 0.5000 |
| SUPERFUND ENTERPRISE MANAGEMENT SYSTEM | SEMS | 0 | 0 | 0.5000 |
| SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY | SEMSARCH | 0 | 0 | 0.5000 |
| NATIONAL PRIORITIES LIST | NPL | 0 | 0 | 1.0000 |
| NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES | NLRRCRAC | 0 | 0 | 1.0000 |
| PROPOSED NATIONAL PRIORITIES LIST | PNPL | 0 | 0 | 1.0000 |
| RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES | RCRAC | 0 | 0 | 1.0000 |
| RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES | RCRASUBC | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|-------------------------|------------------|--------------------|------------------------------|
| AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM | AIRSAFS | 0 | 0 | TP/AP |
| BIENNIAL REPORTING SYSTEM | BRS | 0 | 0 | TP/AP |
| CERCLIS LIENS | SFLIENS | 0 | 0 | TP/AP |
| CLANDESTINE DRUG LABORATORY LOCATIONS | CDL | 0 | 0 | TP/AP |
| EPA DOCKET DATA | DOCKETS | 0 | 0 | TP/AP |
| ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION | ECHOR04 | 0 | 0 | TP/AP |

Database Summary

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|--|------------------------------|------------------|--------------------|------------------------------|
| FACILITY REGISTRY SYSTEM | FRSKY | 0 | 0 | TP/AP |
| HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM | HMIRSR04 | 0 | 0 | TP/AP |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS) | ICIS | 0 | 0 | TP/AP |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM | ICISNPDES | 0 | 0 | TP/AP |
| MATERIAL LICENSING TRACKING SYSTEM | MLTS | 0 | 0 | TP/AP |
| NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM | NPDESR04 | 0 | 0 | TP/AP |
| PCB ACTIVITY DATABASE SYSTEM | PADS | 0 | 0 | TP/AP |
| PERMIT COMPLIANCE SYSTEM | PCSR04 | 0 | 0 | TP/AP |
| SEMS LIEN ON PROPERTY | SEMCLIENS | 0 | 0 | TP/AP |
| SECTION SEVEN TRACKING SYSTEM | SSTS | 0 | 0 | TP/AP |
| TOXIC SUBSTANCE CONTROL ACT INVENTORY | TSCA | 0 | 0 | TP/AP |
| TOXICS RELEASE INVENTORY | TRI | 0 | 0 | TP/AP |
| ALTERNATIVE FUELING STATIONS | ALTFUELS | 0 | 0 | 0.2500 |
| HISTORICAL GAS STATIONS | HISTPST | 0 | 0 | 0.2500 |
| INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS | ICISCLEANERS | 0 | 0 | 0.2500 |
| MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE | MSHA | 0 | 0 | 0.2500 |
| MINERAL RESOURCE DATA SYSTEM | MRDS | 0 | 0 | 0.2500 |
| OPEN DUMP INVENTORY | ODI | 0 | 0 | 0.5000 |
| SURFACE MINING CONTROL AND RECLAMATION ACT SITES | SMCRA | 0 | 0 | 0.5000 |
| URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES | USUMTRCA | 0 | 0 | 0.5000 |
| DEPARTMENT OF DEFENSE SITES | DOD | 0 | 0 | 1.0000 |
| FORMER MILITARY NIKE MISSILE SITES | NMS | 0 | 0 | 1.0000 |
| FORMERLY USED DEFENSE SITES | FUDS | 0 | 0 | 1.0000 |
| FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM | FUSRAP | 0 | 0 | 1.0000 |
| RECORD OF DECISION SYSTEM | RODS | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |

Database Summary

STATE (KY) LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---|-----------------------------|------------------|--------------------|------------------------------|
| ENGINEERING CONTROLS REGISTRY | EC | 0 | 0 | TP/AP |
| INSTITUTIONAL CONTROLS REGISTRY | IC | 0 | 0 | TP/AP |
| REGISTERED UNDERGROUND STORAGE TANKS | RUST | 0 | 0 | 0.2500 |
| BROWNFIELD PROPERTIES | BF | 0 | 0 | 0.5000 |
| HISTORIC LANDFILLS/ OLD TOWN DUMPS | HISTLFDUMPS | 0 | 0 | 0.5000 |
| LANDFILL AND SOLID WASTE DISPOSAL SITES | LFSWDS | 0 | 0 | 0.5000 |
| LEAKING UNDERGROUND STORAGE TANKS | LUST | 0 | 0 | 0.5000 |
| VOLUNTARY CLEANUP PROGRAM SITES | VCP | 0 | 0 | 0.5000 |
| STATE LEAD PRIORITY LIST | SLPL | 1 | 0 | 1.0000 |
| SUB-TOTAL | | 1 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---------------------------------------|------------------------|------------------|--------------------|------------------------------|
| CLANDESTINE DRUG LABORATORY LOCATIONS | CDL | 0 | 0 | TP/AP |
| SPILLS LISTING | SPILLS | 0 | 0 | TP/AP |
| PERMITTED MINE BOUNDARIES | MINES | 0 | 0 | 0.2500 |
| SUB-TOTAL | | 0 | 0 | |

Database Summary

TRIBAL LISTING

Standard Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---|--------------------------|------------------|--------------------|------------------------------|
| UNDERGROUND STORAGE TANKS ON TRIBAL LANDS | USTR04 | 0 | 0 | 0.2500 |
| LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS | LUSTR04 | 0 | 0 | 0.5000 |
| OPEN DUMP INVENTORY ON TRIBAL LANDS | ODINDIAN | 0 | 0 | 0.5000 |
| SUB-TOTAL | | 0 | 0 | |

Additional Environmental Records

| Database | Acronym | Locatable | Unlocatable | Search Radius (miles) |
|---------------------|---------------------------|------------------|--------------------|------------------------------|
| INDIAN RESERVATIONS | INDIANRES | 0 | 0 | 1.0000 |
| SUB-TOTAL | | 0 | 0 | |
| TOTAL | | 1 | 0 | |

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|-----------|----------|
| AIRSAFS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| BRS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| CDL | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| DOCKETS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| EC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ECHOR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ERNSKY | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| FRSKY | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| HMIRSR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ICIS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| ICISNPDES | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| LUCIS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| MLTS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| NPDES04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| PADS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| PCSR04 | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| RCRASC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SEMCLIENS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SFLIENS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SSTS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| TRI | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| TSCA | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| RCRAGR04 | 0.1250 | 0 | 0 | NS | NS | NS | NS | 0 |
| RCRANGR04 | 0.1250 | 0 | 0 | NS | NS | NS | NS | 0 |
| ALTFUELS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| FEMAUST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| HISTPST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| ICISCLEANERS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| MRDS | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| MSHA | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| BF | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| DNPL | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| NLRRCRAT | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| ODI | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| RCRAT | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |

Database Radius Summary

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|----------|-------|
| SEMS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SEMSARCH | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SMCRA | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| USUMTRCA | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| DOD | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| FUDS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| FUSRAP | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NLRRCRAC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NMS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| NPL | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| PNPL | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RCRAC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RCRASUBC | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| RODS | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Database Radius Summary

STATE (KY) LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|--------------------|-----------------------|------------------|--------------------|------------------|------------------|----------------|-----------|----------|
| CDL | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| EC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| IC | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| SPILLS | 0.0200 | 0 | NS | NS | NS | NS | NS | 0 |
| MINES | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| RUST | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| BF | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| HISTLFDUMPS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| LFSWDS | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| LUST | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| VCP | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| SLPL | 1.0000 | 0 | 0 | 0 | 0 | 1 | NS | 1 |
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in **bold**.

| Acronym | Search Radius (miles) | TP/AP (0 - 0.02) | 1/8 Mile (> TP/AP) | 1/4 Mile (> 1/8) | 1/2 Mile (> 1/4) | 1 Mile (> 1/2) | > 1 Mile | Total |
|------------------|------------------------------|-------------------------|------------------------------|----------------------------|----------------------------|--------------------------|--------------------|--------------|
| USTR04 | 0.2500 | 0 | 0 | 0 | NS | NS | NS | 0 |
| LUSTR04 | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| ODINDIAN | 0.5000 | 0 | 0 | 0 | 0 | NS | NS | 0 |
| INDIANRES | 1.0000 | 0 | 0 | 0 | 0 | 0 | NS | 0 |

| | | | | | | | | |
|------------------|--|----------|----------|----------|----------|----------|----------|----------|
| SUB-TOTAL | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------|--|----------|----------|----------|----------|----------|----------|----------|

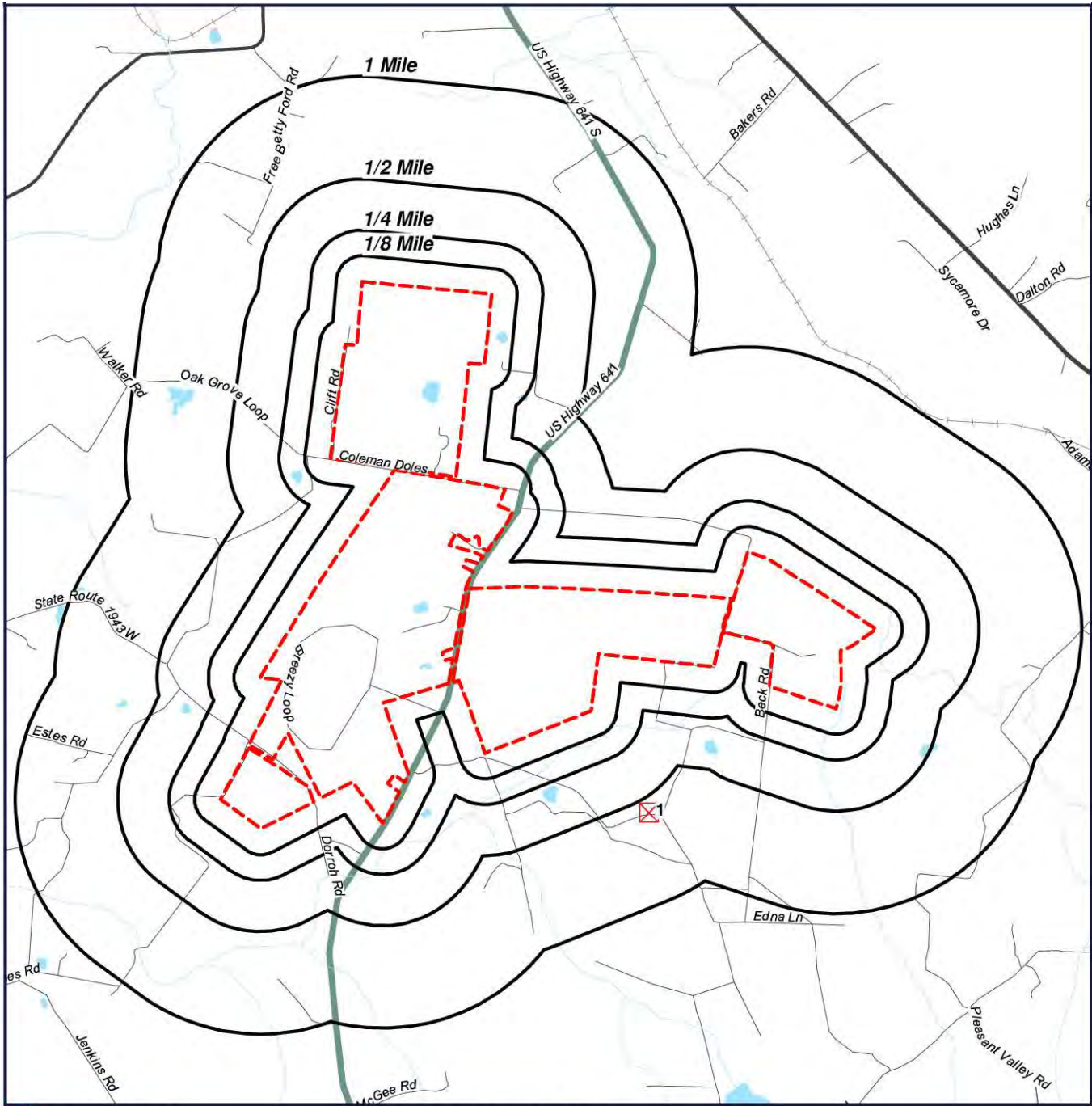
| | | | | | | | | |
|--------------|--|----------|----------|----------|----------|----------|----------|----------|
| TOTAL | | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
|--------------|--|----------|----------|----------|----------|----------|----------|----------|

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



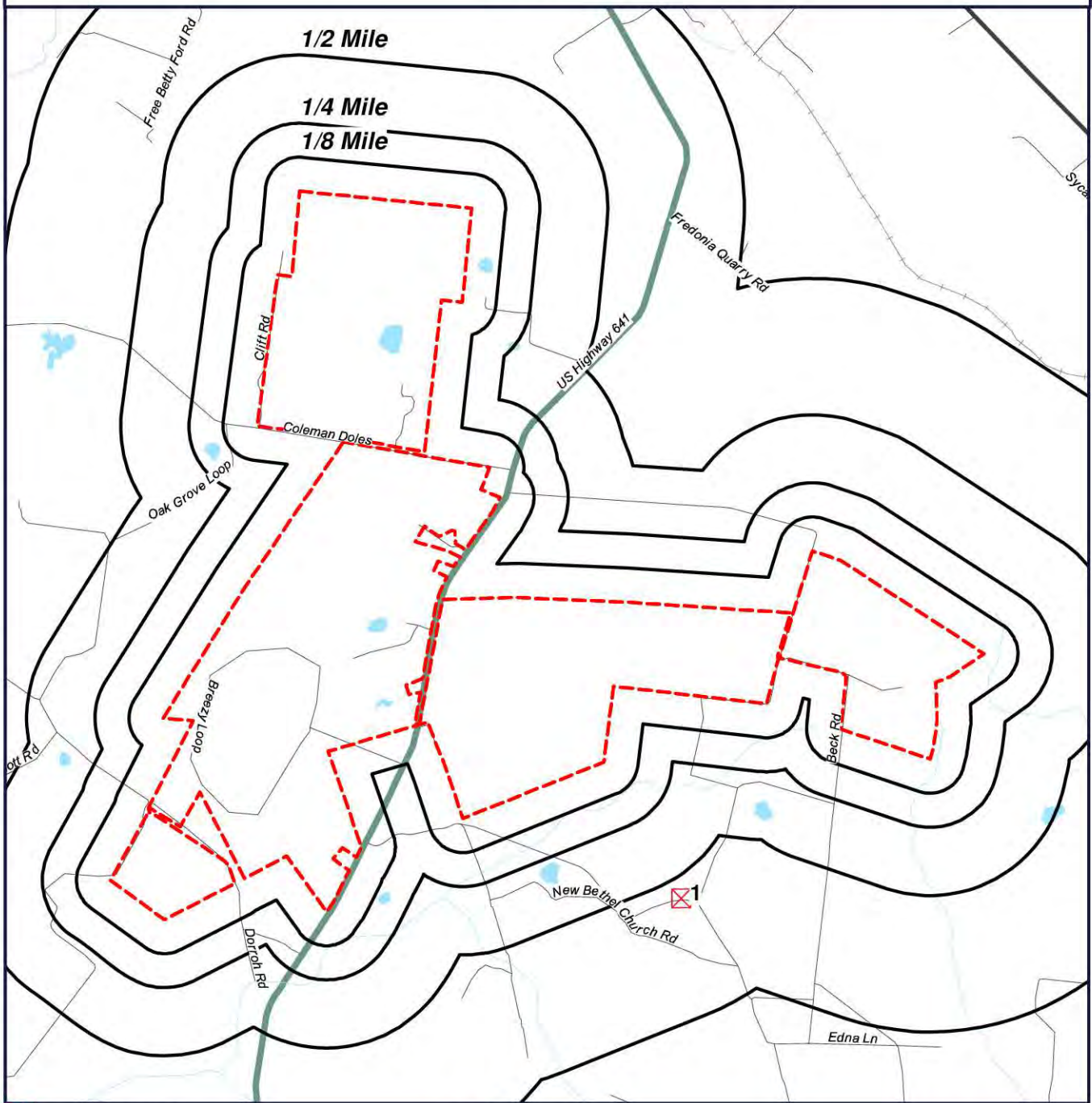
- Target Property (TP)
- SLPL

Ashwood Site
Fredonia, Kentucky
42038



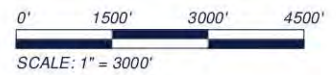
[Click here to access Satellite view](#)

Radius Map 2



- Target Property (TP)
- SLPL



Ashwood Site
Fredonia, Kentucky
42038



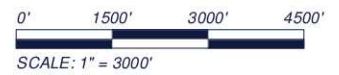
[Click here to access Satellite view](#)

Ortho Map



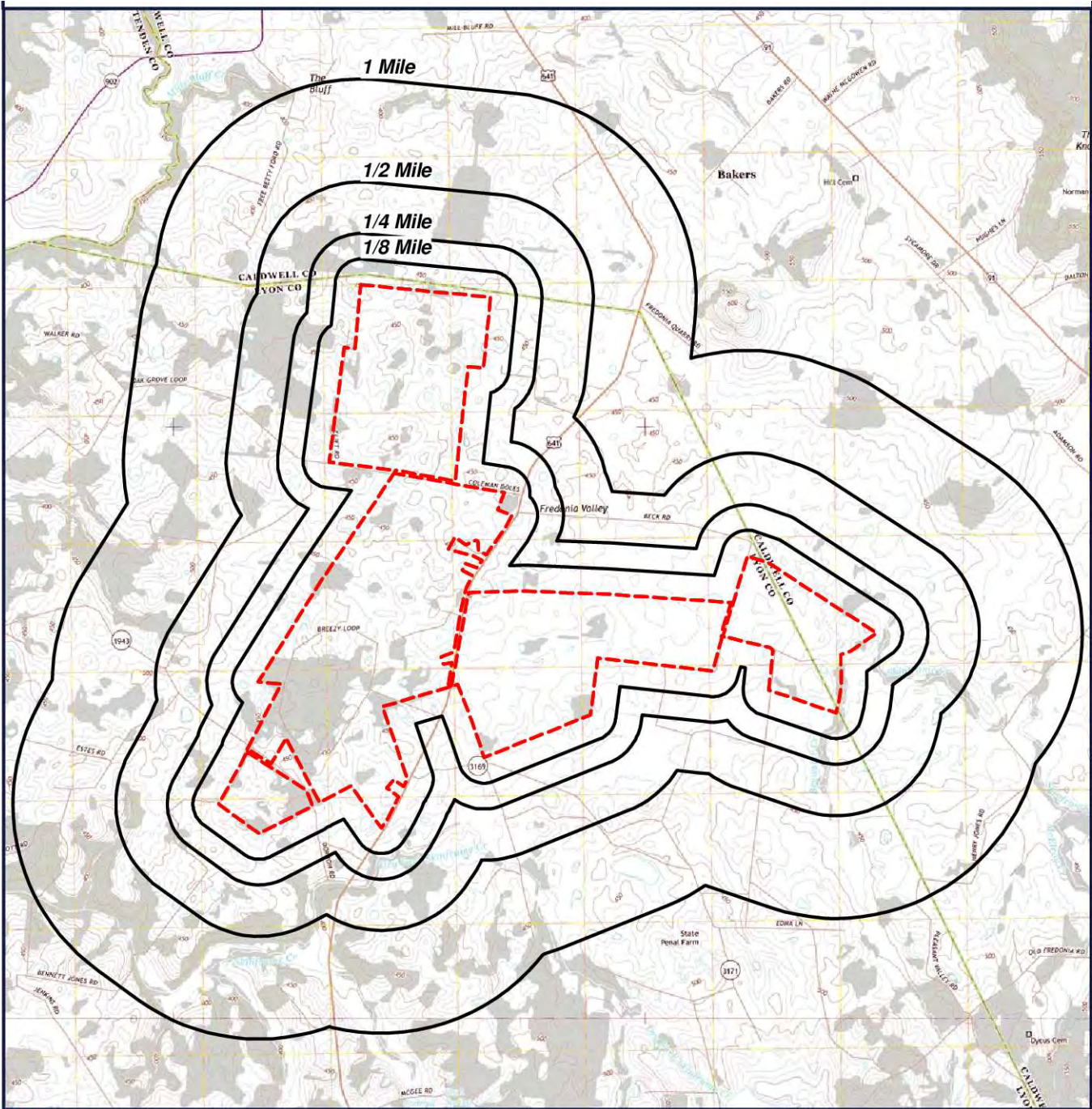
-  Target Property (TP)
-  SLPL


**Quadrangle(s): Fredonia
Ashwood Site
Fredonia, Kentucky
42038**



[Click here to access Satellite view](#)

Topographic Map



 Target Property (TP)

Quadrangle(s): Fredonia
Source: USGS, 04/16/2013
Ashwood Site
Fredonia, Kentucky
42038



0' 2000' 4000' 6000'
SCALE: 1" = 4000'

[Click here to access Satellite view](#)

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

| Map ID# | Database Name | Site ID# | Relative Elevation | Distance From Site | Site Name | Address | PAGE # |
|-------------------|---------------|----------|------------------------|--------------------------------|--|---|--------------------|
| 1 | SLPL | 2794SLPL | Lower (430 ft.) | 0.584 mi. SE (3084 ft.) | WESTERN KENTUCKY CORRECTIONAL COMPLEX | 374 NEW BETHEL CHURCH RD, FREDONIA, KY 42411 | 16 |

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 452 ft.

NOTE: Standard environmental records are displayed in **bold**.

EQUAL/HIGHER ELEVATION

No Records Found

LOWER ELEVATION

| Map ID# | Database Name | Elevation | Site Name | Address | Page # |
|-------------------|---------------|-----------|--|---|--------------------|
| 1 | SLPL | 430 ft. | WESTERN KENTUCKY CORRECTIONAL COMPLEX | 374 NEW BETHEL CHURCH RD, FREDONIA, KY 42411 | 16 |

State Lead Priority List (SLPL)

MAP ID# 1

Distance from Property: 0.584 mi. (3,084 ft.) SE
Elevation: 430 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 2794SLPL

AI ID: 2794

NAME: WESTERN KENTUCKY CORRECTIONAL COMPLEX

ADDRESS: 374 NEW BETHEL CHURCH RD
FREDONIA, KY 42411

COUNTY: LYON

REGULATORY DESCRIPTION: PETROLEUM CLEANUP

FACILITY DETAILS

STATUS: CLOSED

CLOSURE OPTION: OPTION C RESTORED

CLOSURE DATE: 09/12/1997

SUBJECT ITEM DESIGNATION: 45839

SUBJECT ITEM DESCRIPTION:

WKCC (CLOSED: RESTORED)

STATUS: CLOSED

CLOSURE OPTION: OPTION C RESTORED

CLOSURE DATE: 01/02/1997

SUBJECT ITEM DESIGNATION: 42223

SUBJECT ITEM DESCRIPTION:

W. KY CORRECTIONAL COMPLEX (CLOSED: RESTORED)

[Back to Report Summary](#)

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

Environmental Records Definitions - FEDERAL

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 10/05/17

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

Environmental Records Definitions - FEDERAL

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR04 Enforcement and Compliance History Information

VERSION DATE: 09/01/18

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSKY Emergency Response Notification System

VERSION DATE: 04/29/18

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSKY Facility Registry System

VERSION DATE: 10/09/18

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR04 Hazardous Materials Incident Reporting System

VERSION DATE: 09/30/18

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/01/18

Environmental Records Definitions - FEDERAL

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDES04 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

PADS PCB Activity Database System

VERSION DATE: 09/14/18

Environmental Records Definitions - FEDERAL

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

PCSR04 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 4. This region includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 03/21/18

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

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency 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

Environmental Records Definitions - FEDERAL

these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR04 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 4 includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Environmental Records Definitions - FEDERAL

RCRANGR04 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 4 includes the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 09/01/18

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

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

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 09/01/18

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

Environmental Records Definitions - FEDERAL

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 08/31/18

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 10/01/18

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 08/13/18

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/01/18

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

Environmental Records Definitions - FEDERAL

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 08/13/18

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 09/14/18

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.

Environmental Records Definitions - FEDERAL

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/01/18

Environmental Records Definitions - FEDERAL

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.

During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 08/13/18

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 08/13/18

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

Environmental Records Definitions - FEDERAL

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS

Record of Decision System

VERSION DATE: 08/13/18

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (KY)

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 08/14/18

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

EC Engineering Controls Registry

VERSION DATE: 08/14/18

This list of sites with engineering controls is place is provided by the Kentucky Department of Environmental Protection. Engineering controls are physical methods utilized to prevent or minimize exposure to hazardous substances remaining on-site such as barriers or caps.

IC Institutional Controls Registry

VERSION DATE: 08/14/18

This list of sites with institutional controls is place is provided by the Kentucky Department of Environmental Protection. Institutional controls are legal or administrative tools utilized to prevent exposure to potential contamination.

SPILLS Spills Listing

VERSION DATE: 09/21/18

The Kentucky Department of Environmental Protection provides this database. Information includes releases of hazardous or potential hazardous chemical/materials into the environment since 2000.

MINES Permitted Mine Boundaries

VERSION DATE: 07/11/18

A collection of approved permitted mine boundaries for surface and underground mines in Kentucky. This includes western and eastern coal fields, for active, inactive, and released permits. Data is collected from the Kentucky Geoportal an award-winning Data Clearinghouse that provides easy and convenient ways to discover and share geospatial data resources. This data set is provided by the Division of Mine Permits, Kentucky Department for Natural Resources and collected from the Kentucky Geoportal.

RUST Registered Underground Storage Tanks

VERSION DATE: 06/26/18

This list of registered underground storage tanks is provided by the Division of Waste Management Underground Storage Tank Branch of the Kentucky Department of Environmental Protection.

Environmental Records Definitions - STATE (KY)

BF Brownfield Properties

VERSION DATE: 08/15/18

This listing of brownfield properties is provided by the Kentucky Department of Environmental Protection's (DEP) Division of Waste Management. According to the DEP, during the 2012 Kentucky legislative session a law was passed to enhance programs aimed at the redevelopment of brownfields in the Commonwealth. To further support and encourage economic redevelopment of properties with real or perceived adverse environmental conditions, the Commonwealth of Kentucky implemented into law and regulation the Kentucky Brownfield Redevelopment Program. The program provides property owners and prospective property owners (who can certify that they did not cause a release or have relationships with those who did, and who develop a plan to reuse the property safely) documentation that they will not be held responsible for conducting site investigation and remediation under Kentucky Superfund laws.

HISTLFDUMPS Historic Landfills/ Old Town Dumps

VERSION DATE: 03/24/14

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

LFSWDS Landfill and Solid Waste Disposal Sites

VERSION DATE: 08/15/18

The Kentucky Department of Environmental Protection maintains this list of permitted solid waste management facilities.

LUST Leaking Underground Storage Tanks

VERSION DATE: 04/01/18

This list of leaking underground storage tanks is provided by the Kentucky Department of Environmental Protection's Corrective Action Section of the UST Branch for remediation.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 06/08/17

According to the Kentucky Department of Environmental Protection, in 2001, the Kentucky General Assembly enacted the Voluntary Environmental Remediation Act (VERA) to encourage parties to voluntarily clean up

Environmental Records Definitions - STATE (KY)

contaminated properties, which are also known as brownfields. VERA increased liability protection for participants. Consequently, the Voluntary Environmental Remediation Program (VERP) was created that allows interested parties to initiate cleanups on a property they wish to purchase and redevelop. As a result, delays and costs to clean up contaminated sites can be reduced, which can speed up redevelopment of the site. This site listing includes properties with a VERP application.

SLPL State Lead Priority List

VERSION DATE: 08/14/18

According to the Kentucky Department of Environmental Protection, the State Superfund Section addresses sites that are not eligible for the federal Superfund program. Members of this section identify sites where a release or threatened release of hazardous substances has occurred and provide oversight for the investigation and remediation of the sites, these sites are listed on the State Lead Priority List.

Environmental Records Definitions - TRIBAL

USTR04 Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/08/18

Underground storage tanks on Tribal lands located in Region 4 include the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

LUSTR04 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/08/18

Leaking underground storage tanks on Tribal lands located in Region 4 include the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.



Environmental Lien

Target Property:
Ashwood Site
Fredonia, Lyon County, Kentucky 42038

Prepared For:
Smith Management Group

Order #: 117514
Job #: 266054
Project #: 2018-6584
Date: 11/16/2018

TARGET PROPERTY SUMMARY

Ashwood Site

Fredonia, Lyon County, Kentucky 42038

USGS Quadrangle: **Fredonia, KY**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-88.066736, 37.176638), (-88.067243, 37.172133), (-88.068213, 37.172206), (-88.069552, 37.164174), (-88.063698, 37.163563), (-88.063807, 37.163354), (-88.066286, 37.160415), (-88.070341, 37.155657), (-88.074318, 37.150590), (-88.075812, 37.148677), (-88.073805, 37.148547), (-88.076762, 37.143945), (-88.076767, 37.143657), (-88.076841, 37.143620), (-88.079295, 37.140079), (-88.075715, 37.137993), (-88.071008, 37.139912), (-88.071429, 37.140805), (-88.071546, 37.140953), (-88.071738, 37.141114), (-88.076598, 37.143646), (-88.076674, 37.143659), (-88.076739, 37.143659), (-88.076732, 37.143925), (-88.074652, 37.142907), (-88.073340, 37.144760), (-88.070388, 37.140190), (-88.067573, 37.141343), (-88.064931, 37.138406), (-88.064458, 37.138953), (-88.064097, 37.139494), (-88.063406, 37.140587), (-88.064473, 37.141209), (-88.063875, 37.141789), (-88.062954, 37.141300), (-88.062612, 37.141840), (-88.064817, 37.146919), (-88.059046, 37.148273), (-88.058748, 37.148339), (-88.058183, 37.148487), (-88.056956, 37.145953), (-88.055852, 37.143349), (-88.046472, 37.146343), (-88.045826, 37.150361), (-88.035643, 37.149447), (-88.034844, 37.151814), (-88.034633, 37.151859), (-88.030628, 37.151110), (-88.030367, 37.150957), (-88.030349, 37.150840), (-88.030697, 37.148093), (-88.024752, 37.146495), (-88.024518, 37.147235), (-88.024311, 37.148469), (-88.024351, 37.150585), (-88.023453, 37.150851), (-88.021179, 37.152106), (-88.030719, 37.157043), (-88.032581, 37.157546), (-88.034702, 37.152061), (-88.034724, 37.151975), (-88.034700, 37.151905), (-88.034650, 37.151867), (-88.034853, 37.151823), (-88.034890, 37.151878), (-88.034900, 37.151995), (-88.034035, 37.154264), (-88.044980, 37.154839), (-88.052217, 37.155088), (-88.057205, 37.154974), (-88.058741, 37.148401), (-88.059043, 37.148340), (-88.058694, 37.150034), (-88.059432, 37.149925), (-88.059640, 37.150438), (-88.058544, 37.150779), (-88.057666, 37.154592), (-88.057398, 37.155319), (-88.056914, 37.156174), (-88.057784, 37.156514), (-88.057511, 37.157007), (-88.056486, 37.156714), (-88.056037, 37.157217), (-88.056738, 37.157515), (-88.059011, 37.158037), (-88.058398, 37.158858), (-88.057448, 37.158329), (-88.056571, 37.158645), (-88.056390, 37.158586), (-88.056339, 37.157934), (-88.055685, 37.157642), (-88.053932, 37.159567), (-88.053386, 37.160401), (-88.054644, 37.160807), (-88.054064, 37.162000), (-88.063733, 37.163339), (-88.063600, 37.163558), (-88.058406, 37.162797), (-88.057276, 37.170855), (-88.055906, 37.170761), (-88.055277, 37.175754), (-88.066736, 37.176638), (-88.066736, 37.176638)

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TARGET PROPERTY SUMMARY

County/Parish Covered:

Zipcode(s) Covered:

State(s) Covered:



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-5, 38-13, 38-16 & 39-1, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-5, 38-13, 38-16 & 39-1, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-14 & 49-6, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-14 & 49-6, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel Nos. 38-15 & 39-2, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 38-15 & 39-2, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 38-20, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 38-20, Fredonia, KY. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 39-6, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 39-6, Fredonia, KY. and find the following:

None founds



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Lyon County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 49-5, Fredonia, KY. and find the following:

None found

We have done a search of Lyon County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 49-5, Fredonia, KY. and find the following:

None found


APPENDIX D
REGULATORY CONTACTS AND INFORMATION

LIST OF REGULATORY CONTACTS

| <u>NAME</u> | <u>ORGANIZATION</u> |
|--------------------|---|
| Mr. David Taylor | KY Department of Environmental Protection |
| Mr. Dale Hawkes | Lyon County Emergency Management |

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From: Taylor, David at 11/20/2018 9:39:48 AM

Subject: RE: Lyon, Caldwell County Request

Mailbox:

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Will Expire: in 90 days

Mr. Frey,


The Dept. for Environmental Protection received your request, and I have placed a folder containing your documentation on our secure FTP site. We have no listings for any of the coordinates that you submitted. I made a site map of each coordinate location that you sent in, You have been given a user name and temporary password with a link. Upon clicking the link, you will be asked to supply your user name and password. Afterwards, you will then be prompted to change your password. I would advise you to keep a record of this username and password somewhere for future use, as this will become your Open Records FTP login access. Your requested file(s) will upload after you supply your new password. Your files will be available for you to view, download, etc. for 30 calendar days, and then they will automatically delete.

If you have any questions, please don't hesitate to let us know at the contact information below. Thank you and have a terrific day.

Mike Taylor

Public Records Branch - Open Records Section
Division of Information Services
Energy and Environment Cabinet
300 Sower Blvd – 1st Floor
(502) 782-6461
EEC.KORA@ky.gov

Files:


 Josiah Frey folder 11-20-18.zip (25.7 MB)

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From: [Dale Hawkes \(Lyon County EMA\)](#)
To: [Josiah Frey](#)
Subject: Re: Spills or Releases Records Request
Date: Friday, November 16, 2018 3:00:50 PM
Attachments: [image001.png](#)

Sir

I have no records or knowledge of spills at those locations

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From: Josiah Frey <josiahf@smithmanage.com>
Sent: Friday, November 16, 2018 12:43:39 PM
To: lyoncountykyem@gmail.com
Subject: Spills or Releases Records Request

Mr. Hawkes,

I am inquiring about records of releases or spills at 11 parcels along US 641 in northern Lyon County. Specifically, I am inquiring about any records or knowledge you may have about environmental spills, or releases of hazardous substances or petroleum products at the following property parcels or adjacent properties:

Parcel 38-5 in Lyon County: Lat. 37.169093, Long. -88.062946

Parcel 38-16 in Lyon County: Lat. 37.160512, Long. -88.059888

Parcel 38-15 in Lyon County: Lat. 37.157095, Long. -88.062971

Parcel 38-14 in Lyon County: Lat. 37.153088, Long. -88.066360

Parcel 38-13 in Lyon County: Lat. 37.148895, Long. -88.066655

Parcel 39-2 in Lyon County: Lat. 37.145569, Long. -88.071532

Parcel 39-6 in Lyon County: Lat. 37.142789, Long. -88.066377

Parcel 39-1 in Lyon County: Lat. 37.140609, Long. -88.075320

Parcel 38-20 in Lyon County: Lat. 37.149866, Long. -88.053389

Parcel 49-6 in Lyon County: Lat. 37.152025, Long. -88.040250

Parcel 49-5 in Lyon/Caldwell County: Lat. 37.151940, Long. -88.028048

I would appreciate any help you can provide in identifying previous releases or spills on these properties. If you have any questions, my contact information is located below.

Respectfully,

Josiah Frey

Environmental Scientist

Smith Management Group

1405 Mercer Road

Lexington, KY 40511

Office: (859) 231-8936 Ext. 115

Cell: (859) 779-0550

josiahf@smithmanage.com



APPENDIX E
REFERENCES

References

US Geological Survey (USGS) Fredonia, KY Quadrangle Map.

Aerial photographs obtained from GeoSearch, refer to **Figures 7-24**.

Historical Topographic Maps obtained from GeoSearch, refer to **Figures 3-6**.

E-RecSearch Report obtained from GeoSearch, refer to **Appendix C**.

Environmental Lien Report obtained from GeoSearch, refer to **Appendix C**.

Contacts

Mr. Kim White representing the owner of Parcels 38-5, 38-13, 38-15, 38-16, 39-2, 39-4, 39-6.

Mr. Sam Young representing the owner of Parcels 38-14 and 49-6.

Mr. David Williams representing the owner of Parcel 49-5.

Ms. Jessica Jacobs representing the owner of Parcel 38-20.

Mr. David Savage representing Ashwood Solar I, LLC, the User.

APPENDIX F
QUALIFICATIONS – ENVIRONMENTAL PROFESSIONAL



JOSIAH D. FREY

Environmental Scientist

859-231-8936 ext. 115

josiahf@smithmanage.com

Education

B.S. Natural Resource Conservation and Management, University of Kentucky

International Studies in Architectural Ecology, Sustainable Development, Eco-tourism, Biodiversity and Conservation, Universidad Latina, Costa Rica

Professional Certifications/Licenses

ASTM E 1527 Environmental Professional

Certified Wetland Botanist (CWB# 1,101)

Certified 40-Hr Hazardous Waste Site Worker

Certified Method 9 Visible Emissions Reader

Professional Affiliations

LFUCG Environmental Commission

Josiah Frey has extensive NEPA permitting experience in coordinating site development with state and local agencies including the USFWS, Tribal Historic Preservation Officers (THPO), State Historic Preservation Offices (SHPO), and local government entities. He facilitates interagency coordination under Section 106 of the National Historic Preservation Act as an applicant and as a designated non-Federal representative for the FCC.

Josiah also engages in interagency consultation with the U.S. Fish and Wildlife Service through Section 7 of the Endangered Species Act. He prepares biological assessments for USFWS

consultation including bat habitat assessments and Running Buffalo Clover Surveys.

Mr. Frey is a Certified Wetland Botanist with experience delineating wetlands using the Army Corps of Engineers 1987 Wetland Delineation Manual and Regional Supplements and Ohio EPA ORAM methods. He prepares permit applications for USACE 404 permits and Ohio EPA Isolated Wetland Permits.

Josiah conducts Phase I Environmental Site Assessments through site visits, database reviews, and report writing for commercial site development projects.

Josiah is proficient in reading, writing, and speaking Spanish.

Professional Experience

- Prepared NEPA assessment reports for telecommunication site developments at dozens of locations in Kentucky, Virginia, West Virginia, Minnesota, Ohio, Indiana, and Iowa.
- Prepared successful biological assessments of endangered species for residential, commercial, utility, and telecommunications developments in Kentucky, Ohio, Virginia, and Iowa.

- Conducted stream jurisdictional determinations and wetland delineations of Waters of the United States for Clean Water Act Section 404 permits in Kentucky and Ohio.
- Coordinated site development projects with dozens of SHPOs and THPO offices in Midwest and Southeast states in accordance with the NHPA Section 106.
- Conducted Phase I Environmental Site Investigations for cell towers, residential redevelopment projects, and commercial properties throughout Kentucky, Virginia, Illinois, Missouri, Idaho, and Tennessee.
- Conducted groundwater and soil sampling at hazardous waste remediation sites across Kentucky.
- Audited KPDES permitted surface water monitoring programs for the mineral extraction industry.
- Evaluated stream quality of High-gradient Ephemeral and Intermittent Headwaters in Eastern Kentucky using the Hydrogeomorphic Approach (HGM) for USACE 404 permits.
- Conducted fish surveys in wadeable streams across Appalachia utilizing backpack and longline electroshocking methods of fish collection.
- Sampled macroinvertebrates in high gradient streams of eastern Kentucky, including qualitative and quantitative sampling using dip nets and kick seins, and documenting stream function through Rapid Bioassessment Protocols.

Selected Publications/Presentations

December 18, 2013, Kentucky Chamber of Commerce 3rd Annual Energy Conference, Lexington, Kentucky. Workshop: Selenium Regulations-What does implementation look like?

February 10-11, 2015, Kentucky Chamber of Commerce 13th Annual Kentucky Environmental Conference, Lexington, Kentucky. EPA's Cooling Water Intake Rules-What Facilities Need to Know.

August 26-27, 2015, Kentucky Chamber of Commerce 18th Annual Environmental Permitting and Reporting Conference, Lexington, Kentucky. Workshop: Before You Break Ground-How to Address Endangered Species, Wetlands, and Stormwater Pollution Prevention Plans.

Selected Workshops/Training/Classes

Army Corps of Engineers Wetland Delineation & Regional Supplement Training- The Swamp School

Interagency Consultation for Endangered Species (FWS-CSP3116) – U.S. Fish and Wildlife Service

Lexington
1405 Mercer Road
Lexington, KY 40511
859-231-8936
859-231-8997 fax

Louisville
1860 B Williamson Court
Louisville, KY 40223
502-587-6482
502-587-6572 fax





KAREN E. THOMPSON, P.G., C.H.M.M.

Manager of Environmental Services

859-231-8936 ext. 127

karent@smithmanage.com

Education

M.S. Geology, with emphasis on Hydrogeology,
University of Kentucky

B.S. Geology, Eastern New Mexico University

Professional Certifications/Licenses

Registered Professional Geologist:

Kentucky #110986

Indiana #2356

Certified Hazardous Materials Manager

ASTM E1527 Environmental Professional
Certified 40-Hour Hazardous Waste Site Worker

Professional Affiliations

KY Geological Survey Advisory Board

2011 Outstanding Kentucky Geologist Award – KY
AIPG

Member, National Ground Water Association

Karen Thompson is a Registered Professional Geologist with over twenty years of experience with environmental projects including hazardous waste remediation, groundwater investigations, remedial technologies, and compliance management. Ms. Thompson is an Environmental Professional as established by AAI/ASTM 1527-13 to conduct Phase I Assessments and a CHMM. She has worked with

projects ranging from the complex to the simple and brings a sense of professionalism to each, regardless of size or complexity.

Her experience includes compliance assessments of the Department of Energy's remedial RCRA/CERCLA activities at the Paducah Gaseous Diffusion Plant; delineation of groundwater contaminant plumes; and evaluation of remedial technologies for petroleum and chlorinated solvents, groundwater modeling, and groundwater monitoring programs. Karen has provided compliance assistance to facilities in the areas of RCRA hazardous waste generation, EPCRA, and waste water. Karen also assists in the development and due diligence phases of the alternative energy industry.

Ms. Thompson has worked with EPA Region IV, various Kentucky regulatory agencies, citizens, and governmental officials to define environmental issues, address contamination of soil and groundwater and solve regulatory problems.

Professional Experience

- Performed Phase I and Phase II environmental site assessments and

industrial environmental audits focusing upon hazardous chemical storage, hazardous waste management, air emissions and wastewater management.

- Developed and coordinated site investigations of soil and groundwater for a variety of potential contaminants and within differing subsurface environments.
- Developed, implemented and coordinated remediation plans and protocols for both impacted soil and groundwater. In-situ remediation technologies.
- Managed UST and State Superfund investigations and remedial projects.

Selected Publications/Presentations

Fryar, A.E., *Thompson, K.E., Hendricks, S.P., and White, D.S., 2007, Groundwater flow and reservoir management in a tributary watershed along Kentucky Lake: Journal of the Kentucky Academy of Science, v. 68, no. 1, p. 11–23.

*Thompson, K.E., Fryar, A.E., Hendricks, S.P., and White, D.S., 2002, Reservoir-stage manipulation and ground-water flow in the Ledbetter Creek watershed, Calloway County, Kentucky: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 528.

*Thompson, K.E., Fryar, A.E., Hendricks, S.P., and White, D.S., 2000, Ground water flow in the Ledbetter Creek watershed, Calloway County,

Kentucky: 45th Annual Midwest Groundwater Conference Program and Abstracts, p. 58.

Karen Exton Thompson (M.S. 2002), Groundwater flow in the Ledbetter Creek watershed, Calloway County, Kentucky

March 5-6, 2013, Kentucky Chamber's 11th Annual Environmental Conference, Lexington, Kentucky. Workshop J: Case Studies in Site Remediation and Brownfield Redevelopment.

April 26, 2013, Kentucky AIPG Professional Development Conference, Residual LNAPL Impacted Sites: Conceptual Site Models and Effective Remedial Strategies

May 17, 2013, Kentucky Geological Survey Annual Seminar: Emerging Geoscience Issues Impacting the KGS Mission.

May 19-22, 2014, Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, California. Poster Presentation: Case Study of Karst Site: Bedrock Remediation of PCE.

October 7, 2014, 2014 Governor's Conference on Energy and the Environment, The Changing Landscapes in Kentucky: Kentucky's Brownfield Redevelopment Program.

February 9-10, 2016, 14th Annual Environmental Conference, Lexington, Kentucky. Workshop: Decoding the Hazardous Waste Generator Improvement Rules.

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March 28-29, 2017. 15th Annual Environmental Conference, Lexington, Kentucky. Workshop: Hazardous Waste Overhaul: EPA's Final Hazardous Waste Generator Improvements Rule.

Expert Witness Testimony

2012, Retained by Golden & Walters, PLLC in Peyton Reynolds, et al vs. Childers Oil Company; Hindman Petroleum Services, Inc., and Mountain Rail Properties, Inc. Letcher County District Court. Provided deposition.

2012, Retain by Golden & Walters, PLLC in Hardy Oil Company, Inc vs. Nationwide Agribusiness Insurance Company, and Wells Fargo Insurance – Indiana. United States District Court for the Eastern District of Kentucky Central Division at Lexington Case No. 5:11-cv-00075-JBC. Provided deposition.

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