COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY STATE BOARD ON ELECTRIC GENERATION AND TRANSMISSION SITING

IN THE MATTER OF:

THE ELECTRONIC APPLICATION OF MEADE)	
COUNTY SOLAR LLC FOR A CERTIFICATE TO)	
CONSTRUCT AN APPROXIMATELY 40 MEGAWATT)	CASE NO.
MERCHANT SOLAR ELECTRIC GENERATING)	2020-00390
FACILITY IN MEADE COUNTY, KENTUCKY)	
PURSUANT TO KRS 278.700, ET SEQ.,)	
AND 807 KAR 5:110)	

MEADE COUNTY SOLAR LLC'S RESPONSE TO SITING BOARD STAFF'S FIRST REQUEST FOR INFORMATION

Filed: July 29, 2021

IN THE MATTER OF:

VERIFICATION OF CHRIS KILLENBERG

STATE OF <u>Phode</u> Istanol) COUNTY OF New Port)

Chris Killenberg, Regional Development Director for Community Energy, Inc., on behalf of Meade County Solar LLC, being duly sworn, states that he has supervised the preparation of certain responses to Requests for Information in the above-referenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

Chris Killenberg

The foregoing Verification was signed, acknowledged and sworn to before me this $\underline{27}^{m}$ day of July 2021, by Chris Killenberg.



abra Lastrell

Notary Commission Number: <u>766165</u>

Commission expiration: $\frac{11/23/24}{24}$

IN THE MATTER OF:

THE ELECTRONIC APPLICATION OF MEADE)	
COUNTY SOLAR LLC FOR A CERTIFICATE TO)	
CONSTRUCT AN APPROXIMATELY 40 MEGAWATT)	CASE NO.
MERCHANT SOLAR ELECTRIC GENERATING)	2020-00390
FACILITY IN MEADE COUNTY, KENTUCKY)		
PURSUANT TO KRS 278.700, ET SEQ.,)	
AND 807 KAR 5:110)	

VERIFICATION OF JASON BOSTON

STATE OF KENTUCKY)) COUNTY OF VEFFERSON)

Jason Boston, Project Scientist for Linebach Funkhouser Inc., on behalf of Meade County Solar LLC, being duly sworn, states that he has supervised the preparation of certain responses to Requests for Information in the above-referenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

June P- Butur Jason Boston

The foregoing Verification was signed, acknowledged and sworn to before me this 27 k day of July 2021, by Jason Boston.

uhLM

Notary Commission Number: 635045

Commission expiration: 12.8-2023



IN THE MATTER OF:

THE ELECTRONIC APPLICATION OF MEADE)	
COUNTY SOLAR LLC FOR A CERTIFICATE TO)	
CONSTRUCT AN APPROXIMATELY 40 MEGAWATT)	CASE NO.
MERCHANT SOLAR ELECTRIC GENERATING)	2020-00390
FACILITY IN MEADE COUNTY, KENTUCKY)		
PURSUANT TO KRS 278.700, ET SEQ.,)	
AND 807 KAR 5:110)	

VERIFICATION OF MARTY MARCHATERRE

STATE OF KENTUCKY)) COUNTY OF FAYETTE)

Marty Marchaterre, P.E., Senior Environmental Planner for Copperhead Environmental Consulting, Inc., on behalf of Meade County Solar LLC, being duly sworn, states that he has supervised the preparation of certain responses to Requests for Information in the abovereferenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

Marty Marchaterre

The foregoing Verification was signed, acknowledged and sworn to before me this $\mathcal{I}_{\mathcal{I}}$ day of July 2021, by Marty Marchaterre.

Tammera Nolen Notary Public State At Large - Kentucky Commission Expires 10-06-2021 ID# 588262

 Jammah

 Notary Commission Number:
 588262

 Commission expiration:
 10-06-21

IN THE MATTER OF:

THE ELECTRONIC APPLICATION OF MEADE)	
COUNTY SOLAR LLC FOR A CERTIFICATE TO)	
CONSTRUCT AN APPROXIMATELY 40 MEGAWATT)	CASE NO.
MERCHANT SOLAR ELECTRIC GENERATING)	2020-00390
FACILITY IN MEADE COUNTY, KENTUCKY)		
PURSUANT TO KRS 278.700, ET SEQ.,)	
AND 807 KAR 5:110)	
	,	

VERIFICATION OF MICHAEL CLARK

))))

COMMONWEALTH OF KENTUCKY

COUNTY OF FAYETTE

Michael Clark, PhD., Director of the Center for Business and Economics Research, University of Kentucky on behalf of Meade County Solar LLC, being duly sworn, states that he has supervised the preparation of certain responses to Requests for Information in the abovereferenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

Michael Clark

The foregoing Verification was signed, acknowledged and sworn to before me this _76 the day of July 2021, by Michael Clark.

My S- WYNP 17 402

Notary Commission Number: 1/2/1912 402

Commission expiration: _________

1. Refer to the Application, Exhibit 10, Attachment 10.1 in general. Explain what a fractional job (e.g., 0.3, 1.2, etc.) represents. Explain whether this represents increased hours for existing jobs or entirely new part-time jobs, or a combination of both.

Response:

IMPLAN models the relationship between the amount of spending associated with a project and the total number of jobs supported by that spending. Often, the amount of spending does not support a full job. Analysts often round results from IMPLAN so that fractional employment numbers are not displayed. In these cases, rounding could have significant impacts on the estimated economic impacts. This is particularly true for indirect and induced impacts for the State of Kentucky excluding Meade County. Rounding would make some of these impacts disappear completely or could increase the impacts by as much as 50%. For this reason, we chose to display the fractional employment estimates produced by IMPLAN. These employment estimates represent the combination of an increase in the count of jobs and an increase in total hours worked.

2. Refer to the Application, Exhibit 10, Attachment 10.1, page 2. Community Energy anticipates that most of the approximately 150 full-time equivalent workers will come from within Henderson (sic) or surrounding counties. Approximately 20 percent of the workers (30 workers) are assumed to be specialty workers who come from outside the area.

a. Explain whether the model was calibrated for Meade County specifically or calibrated to include surrounding counties as well.

b. Explain whether the surrounding counties would include counties in Indiana.

c. Explain whether the model includes the effects of the approximately 30 outside area specialty workers living in Meade County or are they assumed to live outside the county and commute in to work.

Response:

a. IMPLAN is designed to allows users to designate regions by grouping counties.

We developed the model for our analysis based on two regions: 1) Meade County and 2) the rest of the state. By doing so, we can see how additional income earned in Meade County flows into other regions of the state. Most of the impact outside Meade would likely occur in surrounding counties. For example, because Meade County borders Hardin County, it is likely that a significant portion of the additional income earned from the Project would be spent in Hardin County.

b. Our analysis only examines the economic impact on Kentucky. It is likely that there would be additional economic impact in some Indiana counties. However, those impacts are outside the region of our analysis.

c. We do not know where the approximately 30 outside area specialty workers would reside. It is possible that some of these workers could reside in Meade County or other Kentucky counties. However, it is just as likely, and perhaps more likely, that they would reside in other states. To the extent they reside outside Kentucky, the additional income they earn is unlikely to generate significant indirect and induced impacts in Meade County or Kentucky. Therefore, the indirect and induced impacts associated with these 30 workers were excluded from our totals. If some of these workers should happen to reside in Meade County or Kentucky, the impacts could be larger.

3. Refer to the Application, Exhibit 10, Attachment 10.1, Table 1, page 3. Explain how the model is calibrated for the state of Kentucky such that it does not include the indirect or induced effects reported for Meade County.

Response:

IMPLAN is designed to allows users to designate regions based on counties, and our analysis was developed using two regions: 1) Meade County and 2) the rest of Kentucky. IMPLAN also allows us to estimate the linkages between these regions. As a result, we can see how additional spending in Meade County flows to other regions of the state, and viceversa.

For Meade County, the indirect impact on employment is 6 jobs, and the induced impact on employment is 7 jobs. For the rest of Kentucky (excluding the impacts for Meade County), the indirect impact on employment is 7 jobs, and the induced impact on employment is 7 jobs. The jobs reported under the heading "State of Kentucky (outside of Meade County area)" are in addition to the jobs in Meade County.

4. Refer to the Application, Exhibit 10, Attachment 10.1, Table 2, page 3. Explain whether the estimated sales tax revenue includes the solar panels or any other material that may not be manufactured or procured in-state. If not, explain the basis for the model's sales tax revenue estimates.

Response:

Estimates of the sales tax revenue generated during the Construction Phase do not include any sales tax paid on equipment or materials purchased for the construction itself. The sales tax revenue comes from spending by workers who are employed during the Construction Phase. A report from the Institute of Taxation and Economic Policy estimated the effective tax rates for Kentucky families at various income levels. The effective sales tax rate for individuals was estimated to be 3% for Kentucky families in the middle-income quintile (\$32,800 to \$51,000) and 3.6% for Kentucky families in the second lowest income quintile (\$17,600 to \$32,800). For this analysis, we applied the more conservative figure of 3% to our estimates of the additional labor income to be earned in the state.

5. Refer to the Application, Exhibit 10, Attachment 10.1, page 4.

a. Explain how the \$41,000 labor income reduction was determined.

b. Explain whether the \$41,000 reduction in labor income includes indirect and induced effects, if the effect is not too small to measure.

Response:

a. The \$41,000 reduction in labor income represents income that will no longer be generated from agricultural production on the project site. This estimate is based on the anticipated amount of lost agricultural production. Currently, 361 acres of the proposed project site are under cultivation. Estimates from the 2017 Census of Agriculture indicates that the average value of crop production in Meade County is approximately \$376 per acre (after adjustments for inflation). This suggests the lost agricultural output would total \$136,000 per year. This reduction in output was entered into IMPLAN, which indicated the associated reduction in labor income would be \$41,000.

b. This figure includes \$27,000 in direct impacts, \$12,000 in indirect impacts, and
\$2,000 in induced impacts.

6. Refer to Application, Exhibit 10, Attachment 10.1, page 5. Explain why a discount rate of 2 percent was assumed in the present value calculation.

Response:

The discount rate was selected to reflect society's marginal rate of time preference. In this case, the yield on 20-year US treasury bonds, which was approximately 2% when the analysis was conducted, was selected as a proxy following Cost-Benefit Analysis Concepts and Practices. Another option would be to use a discount rate that reflects the marginal rate of return on private investment. One possible measure for this would be the yield on Moody's AAA rated corporate bonds, which is currently 2.6%. That said, guidance on discount rates varies across federal agencies and ranges from 0% to 7% depending on the agency and project. The main purpose of the present value calculation was to reflect the fact that—all else equal future impacts will have less value than current impacts.

7. Refer to the Application, Exhibit 10, Attachment 10.1, Table 4, page 5. Explain what is driving the estimated state sales tax revenue during the operational phase of the project.

Response:

Estimates of the sales tax revenue during the Operation Phase are based on spending by workers who are employed during the Operation Phase. A report from the Institute of Taxation and Economic Policy estimated the effective tax rates for families at various income levels. The effective sales tax rate for individuals was estimated to be 3% for Kentucky families in middle income quintile (\$32,800 to \$51,000) and 3.6% for Kentucky families in the second lowest income quintile (\$17,600 to \$32,800). For this analysis, we applied the more conservative figure of 3% to our estimates of the additional labor income to be earned in the state.

Item 8 Page 1 of 4 Witness: Chris Killenberg

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

8. Provide a description of any construction method that will suppress the noise generated during the pile driving process (i.e., semi-tractor and canvas method; sound blankets on fencing surrounding the solar site, or any other comparable method) that Meade County Solar plans to employ and the associated reduction in noise that each method produces.

a. Provide Meade County Solar's planned level of construction using methods that suppress noise during the pile driving process.

b. Provide the estimated additional cost the use of noise suppression methods Meade County Solar will incur.

Response:

a. The Applicant proposes to mitigate the adverse effects of noise associated with pile driving by observing restricted hours for pile driving in close proximity to neighboring residences. The Applicant proposes the creation of 'Neighbor Zones' within which pile driving may only be conducted Monday through Friday from 9am to 5pm. Accordingly, the maximum sound level at the nearest neighboring residences associated with pile driving will occur during hours when residents are more likely to be away from home for work or errands, and less likely to be at home, in the yard, etc.

The proposed Neighbor Zones will be the first 300 feet of those areas of the project site closest to neighboring residences. The periphery of the project site is already set at a minimum distance of 500 feet from any neighboring residence. Accordingly, the Neighbor Zones will include all areas of the project site within 800 feet of any neighboring residences.

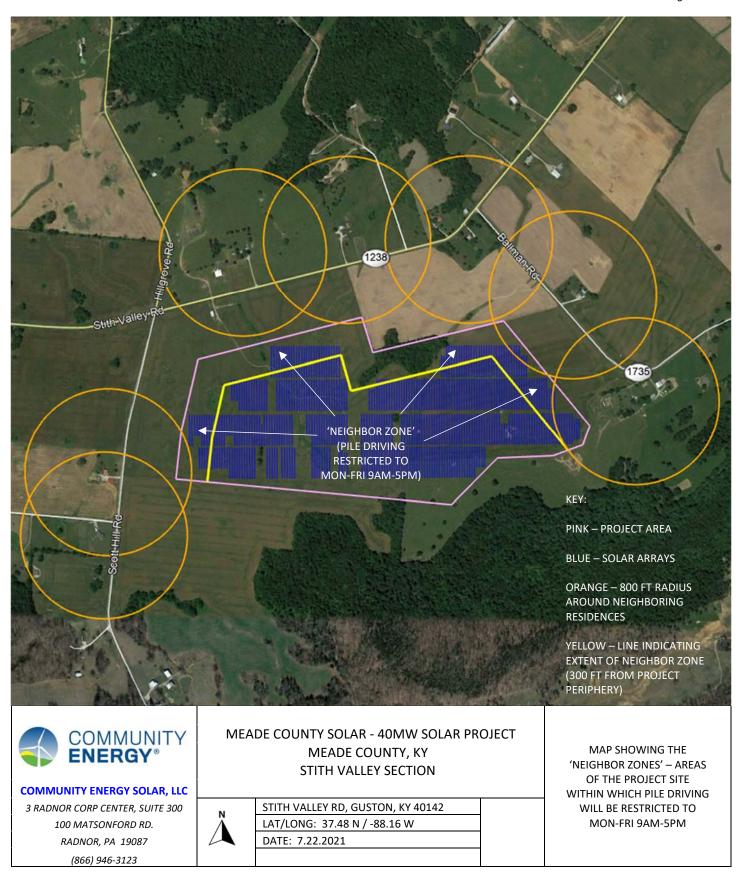
The distance of 800 feet was selected because, at that distance, the sound level created by pile driving will have attenuated to just below 60 dBA. This is just below the range of 60 dBA – 70 dBA, generally described as "Normal speech at a distance of 3 feet." The Applicant submits that a sound level below 60 dBA is neither un-safe nor an undue burden on neighbors, and pile driving <u>outside</u> of the Neighbor Zones may occur outside of the hours of Mon-Fri 9am-5pm without posing a nuisance.

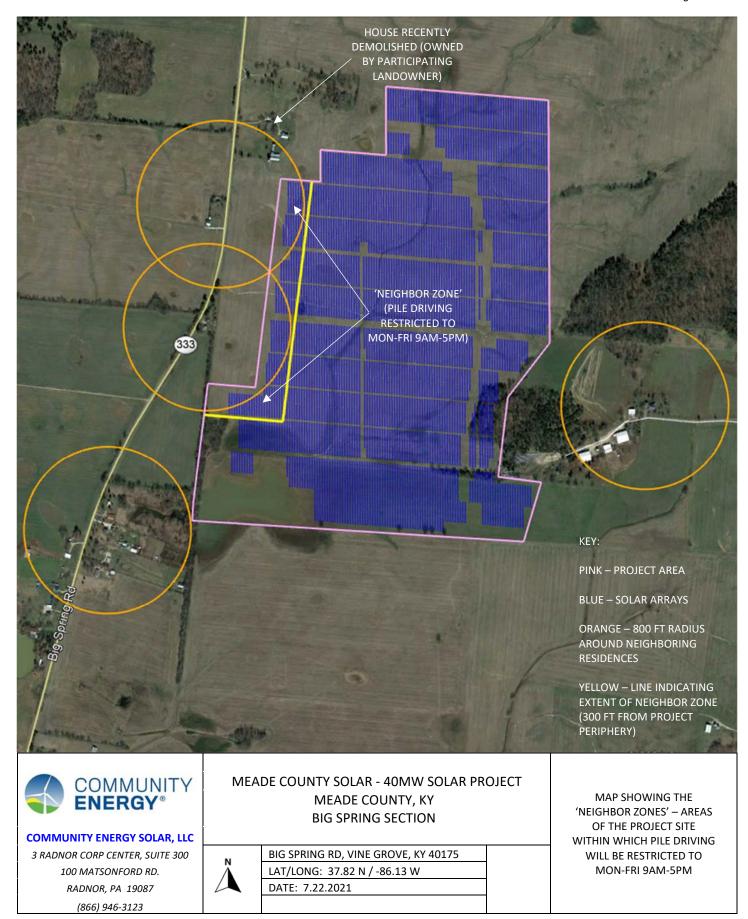
Even the sound levels associated with pile driving conducted <u>within</u> the Neighbor Zones will be modest. At the closest neighboring residence, approximately 500 feet from the nearest pile driving location, the sound created by pile driving will have attenuated to a level of approximately 64 dBA. Accordingly, the sound level resulting from pile driving <u>within</u> Neighbor Zones, will range from 60 dBA – 64 dBA, at the low end of the sound range described as "Normal speech at a distance of 3 feet."

Please see attached 'Meade County Solar_Maps of Neighbor Zones', pages 3 and 4 of this response.

The Applicant submits that this planned approach to mitigating noise associated with pile driving is safe and sufficient. The Applicant proposes no additional noise suppression methods.

b. The Applicant believes the observance of Neighbor Zone restrictions can be managed within the normal course of construction, and any related additional cost will be minimal.





Item 9 Page 1 of 5 Witness: Chris Killenberg

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

9. Refer to the Application, Exhibit 12, Attachment 12.5, page 266 of 519.

a. Provide a list of the specialty pile driver equipment Meade County will use during construction, include the make and model of the equipment.

b. Provide the number of pile drivers that will be in use at the same time during construction.

Response:

a. While the specific pile driver equipment has not been selected, it is anticipated

that Meade County will be using a Vermeer pile driver model PD10 or PD10r or equivalent

equipment.

Please see attached 'Meade County Solar_Vermeer Pile Driver Specification Sheets',

pages 2-5 of this response.

b. It is anticipated that four (4) pile drivers would be onsite at the same time; likely two (2) pile drivers working on each section of the project site.





IMPROVE YOUR ACCURACY. An optional laser receiver integrated into the control system and a GPS-ready design (capable of accepting a number of different systems) can help improve productivity.



REDUCE YOUR CYCLE TIME. Using the auto plumb feature, the PD10 can correct pile angle to be completely vertical without any manual adjustment by the operator. Featuring a hammer which has 80% more impact energy than the original version offered, cycle times have been reduced.



EFFICIENT GROUND DRIVE. Move from pile to pile quickly and accurately with an efficient ground drive, reducing cycle time.



TAKE CONTROL. Conveniently placed dual joystick controls allow the operator to control machine functions including engagement of the hammer, pile placement and ground drive.



LEAVE IT LIKE YOU FOUND IT. The PD10 features a wide track pad to minimize jobsite disturbance in widely varying ground conditions.



AT YOUR FINGERTIPS. An industry-unique integrated control system offers the operator a variety of machine information, including pile angle and height. Display also shows machine maintenance information to help maintain service schedules.



PD10 PILE DRIVER

GENERAL WEIGHTS AND DIMENSIONS 10' (3 M) MAST

Max operating height: 14.9' (4.5 m) Operating length: 10.2' (3.1 m) Operating width: 10.1' (3.1 m) Operating weight: 14,135 lb (6411.5 kg) Transport height: 108" (274.3 cm) Transport length: 122" (309.9 cm) Transport width: 99" (251.5 cm)

GENERAL WEIGHTS AND DIMENSIONS 15' (4.6 M) MAST

Operating height: 19.9' (6.1 m) Operating length: 10.2' (3.1 m) Operating width: 10.1' (3.1 m) Operating weight: 14,320 lb (6495.4 kg) Transport height: 108" (274.3 cm) Transport length: 122" (309.9 cm) Transport width: 99" (251.5 cm)

GENERAL WEIGHTS AND DIMENSIONS 20' (6.1 M) MAST

Operating height: 24.9' (7.6 m) Operating length: 10.2' (3.1 m) Operating width: 10.1' (3.1 m) Operating weight: 15,840 lb (7184.9 kg) Transport height: 108" (274.3 cm) Transport length: 122" (309.9 cm) Transport width: 101" (256.5 cm)

OPERATOR'S STATION

Rollover protective structure (ROPS) rating: 16,300 lb (7393.6 kg) Seat: Rotating Controls: Dual joysticks

ENGINE OPTION ONE

Make and model: Deutz D2.9 L4 Gross horsepower: 49 hp (36.5 kW) Number of cylinders: 4 Cooling medium: Liquid Fuel type: Diesel Emissions rating: Tier 4 Final (EU Stage IIIA)

ENGINE OPTION TWO

Make and model: Deutz D2.9 L4 Gross horsepower: 49 hp (36.5 kW) Number of cylinders: 4 Cooling medium: Liquid Fuel type: Diesel Emissions rating: Tier 4i (EU Stage IIIA)

FLUID CAPACITIES

Fuel tank: 18 gal (68.1 L) Engine crankcase with filter: 2.1 gal (8 L) Hydraulic tank: 36 gal (136.3 L) Engine cooling system: 1.5 gal (5.7 L)

GROUND DRIVE

Hydraulic pump type: Danfoss H1 hydrostatic Max ground drive speed (high): 1.7 mph (2.7 km/h) Track drive: Steel track with rubber pads

HAMMER

Max angle (direction of tracks): 11 deg (each direction from vertical) Max angle (perpendicular to tracks): 20 deg away from machine | 55 deg toward machine (from vertical) Impact drive type: High-frequency hammer Max hammer impact: 1500 bpm Max pile dimension (round opening): 9.3 in² (23.6 cm²) Max pile dimension (square opening): 8.3 in² (21.1 cm²) Max pile dimension (rectangle opening): 6.7x9.3" (17x23.6 cm)

FEATURES

Auto plumb: Standard Laser receiver: Optional Max laser operating distance: 1500' (457.2 m) Remote Control: Optional Vermeer Productivity Tools capable Third party GPS integration available

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REMOTE CONTROL. Control machine functions, including hammer engagement, pile accuracy using the auto plumb feature and ground drive via wireless remote control.



IMPROVE YOUR ACCURACY. An optional laser receiver integrated into the control system and a GPS-compatible design (capable of accepting compatible third party systems) can help improve productivity.



REDUCE YOUR CYCLE TIME. Using the auto plumb feature, the PD10R can set the mast to be vertical without any manual adjustment by the operator. Featuring a hammer which has high impact energy, cycle times have been reduced.



EFFICIENT GROUND DRIVE. Move from pile to pile quickly and accurately with an efficient ground drive, reducing cycle time.



LEAVE IT LIKE YOU FOUND IT. The PD10R features a wide track pad to minimize jobsite disturbance in widely varying ground conditions.



AT YOUR FINGERTIPS. An industry-unique on-machine control system offers the operator a variety of machine information, including pile angle and height. Display also shows machine maintenance reminders to help maintain service schedules.



PD10R PILE DRIVER

Item 9 Page 5 of 5 Witness: Chris Killenberg

GENERAL DIMENSIONS AND WEIGHTS 20' (6.1 M) MAST

Maximum operating height: 24.9' (7.6 m) Operating weight: 15,560 lb (7057.9 kg) Operating length: 10.2' (3.2 m) Operating width: 10.1' (3.1 m) Transport height: 108" (274.3 cm) Transport length: 122" (309.9 cm) Transport width: 101" (256.6 cm)

ENGINE OPTION ONE

Make and model: Deutz D2.9 L4 Gross horsepower: 49 hp (36.5 kW) Number of cylinders: 4 Cooling medium: Liquid Fuel type: Diesel EPA certification family: Tier 4 Final (EU family stage IIIA)

ENGINE OPTION TWO

Make and model: Deutz D2.9 L4 Gross horsepower: 49 hp (36.5 kW) Number of cylinders: 4 Cooling medium: Liquid Fuel type: Diesel EPA certification family: Tier 4i (EU family stage IIIA)

FLUID CAPACITIES

Fuel tank: 18 gal (68.1 L) Engine crankcase with filter: 2.1 gal (7.9 L) Engine cooling system: 1.5 gal (5.7 L) Hydraulic tank: 36 gal (136.3 L)

GROUND DRIVE

Hydraulic pump type: Danfoss H1 hydrostatic Maximum transport speed: 1.74 (2.7 km/h) Track drive: Steel track with rubber pads

HAMMER

Maximum angle (direction of tracks): 11 degrees (each direction from vertical)

Maximum angle (perpendicular to tracks): 20 degrees away from machine | 55 degrees toward machine (from vertical)

Impact drive type: High-frequency hammer

Maximum hammer impact: 1500 bpm

Maximum pile dimension (round opening): 9.3 in² (23.6 cm²)

Maximum pile dimension (square opening): 8.3 in² (21.1 cm²)

Maximum pile dimension (rectangle opening): 6.7 x 9.3" (17 x 23.6 cm)

FEATURES

Autoplumb: Standard Laser receiver: Optional Remote control: Standard Max laser operating distance: 1500' (457.2 m) Vermeer productivity tools capable Third party GPS integration capable

NOTES:



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Item 10 Page 1 of 199 Witness: Jason Boston

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

10. Refer to Site Assessment Report (SAR), Exhibit 14, Attachment 14.2, page 11 of 129, Section 2.3. Municipal Services and Utilities.

a. Natural gas is supplied by Louisville Gas & Electric Company, not Kentucky Utilities. Explain whether Louisville Gas & Electric Company was contacted to ascertain that there are not any gas distribution lines crossing the properties or the transmission line.

b. Confirm that Meade County Solar's retail electric service provider is Meade County RECC.

Response:

a. The text in the Phase I Environmental Site Assessment Report ("ESA") has been corrected to reflect that Louisville Gas & Electric is the supplier of natural gas to the proposed project location.

A new Appendix D has been added to the ESA, showing the oil and gas gathering lines in the vicinity of the proposed project site, and to provide detailed information on the oil and gas wells at that location. This data was gathered from the Kentucky Geologic Survey (KGS), the National Pipeline Mapping System (NPMS).

A complete version of the updated ESA has been downloaded and is attached to this response.

b. Confirmed; Meade County Solar's retail electric service provider will be Meade County RECC.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT



Meade County Solar LLC Project Flaherty, Kentucky

> March 12, 2021 (UPDATED JULY 22, 2021)

> > Prepared by:





March 12, 2021 (UPDATED JULY 22, 2021)

Community Energy Meade County Solar LLC Copperhead Environmental Consulting, Inc. Mr. Marty Marchaterre 151 Walton Avenue Lexington, Kentucky 40508

Re: Phase I Environmental Site Assessment Report Meade County Solar LLC Project Flaherty, Kentucky Linebach Funkhouser Project Number 320-20

Dear Mr. Marchaterre:

Linebach Funkhouser, Inc. (LFI) has completed the enclosed *Phase I Environmental Site Assessment Report* for the above-referenced property. The assessment activities included a site reconnaissance, interviews with persons knowledgeable about the site, a review of available literature, maps, historical information, and a review of the local, state and federal regulatory agency files regarding the site. The attached report documents the conditions encountered during the assessment and presents our summary and recommendations relative to the site.

We appreciate the opportunity to provide our services to you. Please contact us if you have any questions or comments regarding this submittal, or if we can be of additional service to you.

Sincerely,

P. But

Jason P. Boston Project Scientist

R. William Johnston, PG Principal Geologist

Enclosure

EXECUTIVE SUMMARY

Linebach Funkhouser, Inc. (LFI) has completed a Phase I Environmental Site Assessment (ESA) of the farm properties located near Flaherty in Meade County, Kentucky. This ESA was prepared in accordance with the scope and limitations of ASTM's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13), recognized by the U.S. Environmental Protection Agency (USEPA) as compliant with *Standards and Practices for All Appropriate Inquiries* (AAI) promulgated at 40 CFR Part 312. Results of the assessment, including a site reconnaissance, a review of historical information, a review of federal, state and local records, as well as interviews with persons knowledgeable about the site, are summarized as follows:

Report Section	Environmental Related Item	Description	REC
	SIT	E/AREA DESCRIPTION	
2.6	Current Use of Property	Agricultural, residential and farm related structures	NO
2.7	Current Use of Adjoining Properties	Agricultural; wooded; rural residential	NO
	SITE HISTORY A	ND HISTORICAL RECORDS REVIEW	
3.1	Past Uses of Property		NO
3.2	Past Uses of Adjoining Properties	Agricultural; wooded; rural residential	NO
	A	MENTAL RECORDS REVIEW	
4.1	Subject Property	No listings	NO
4.1	Adjoining Properties	No listings	NO
4.2	Listings within Established Search Radii	No listings	NO
4.3	Vapor Encroachment Screen	Does not exist	NO
	SI	TE RECONNAISSANCE	
5.2	5.2Haz. Substances/Waste and Petroleum ProductsNone observedNO		NO
5.3	Storage Tanks (UST/AST)	One diesel and one empty AST	NO
5.8	Pits, ponds and lagoons	Few farm ponds	NO
5.9	Stained soil/pavement	None observed	NO
5.11	Waste Generation, Storage, and Disposal	Few areas of historical dumping were observed in wooded portions of the Hamilton property.	NO
5.13	Wells	Water supply well	NO
		INTERVIEWS	
6.1	Site Representative	Ms. Diane Medley, Mr. Jeff Hamilton, Ms. Ann Doman & Mr. Karl Gohl were interviewed throughout the course of this assessment. LFI reached out to Mr. Jerry Phillips, call not returned.	NO

Report Section	Environmental Related Item	Description	REC
6.3	Local Government Officials	None based on historical and regulatory information	NO
	NON-S	COPE CONSIDERATIONS	
7.1	Asbestos Containing Materials (ACMs)	Property is to be leased from current owners; no survey was completed.	
7.2	Lead Based Paint (LBP)		
	USER P	ROVIDED INFORMATION	
8.1	8.1 Env. Liens / AULs None provided for review. NC		NO
9.0	9.0 DATA GAPS N		NO
10.0	10.0 FINDINGS AND OPINIONS		NO
Recognized Environmental Conditions (RECs) None Identified			
Historical Recognized Environmental Conditions (HRECs) None Identified			
	Controlled Recognized Environmental Conditions (CRECs) None Identified		
De Minim	De Minimis Conditions None Identified		

Conclusions and Recommendations

This assessment has revealed no evidence of *recognized environmental conditions* (RECs) in connection with the property. Therefore, no further assessment is recommended.

This Executive Summary provides a summation of the results of the Phase I ESA and is not intended to be all-inclusive. The complete report lists the procedures used during our assessment and provides our conclusions and recommendations regarding the site.

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1.0 INTRODUCTION

Linebach Funkhouser, Inc. (LFI) was retained by Copperhead Environmental Consulting, Inc.; Meade County Solar LLC and Community Energy (the Clients), to conduct a Phase I Environmental Site Assessment (ESA) of the farm properties located near Flaherty in Meade County, Kentucky (the "subject property"). LFI understands the properties are to be under a long term lease agreement with the current owners.

1.1 Purpose

The purpose of this ESA was to document current and historical information on the subject property and surrounding areas in order to identify *recognized environmental conditions* (RECs), defined in ASTM E1527-13 as 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.

The term is not intended to include *de minimis* conditions, defined in ASTM E1527-13 as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not *recognized environmental conditions* nor *controlled recognized environmental conditions*.

The term *historical recognized environmental condition* (HREC), is defined by ASTM E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority (as evidenced by the issuance of a no further action letter or other equivalent closure documentation) or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restriction, activity and use limitations, institutional controls, or engineering controls).

The term *controlled recognized environmental condition* (CREC), is defined by ASTM E1527-13 as an 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), 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).

1.2 Scope of Work

This ESA was conducted utilizing standard practices consistent with ASTM E1527-13. Any significant scope-of-work additions, deletions or deviations to ASTM E1527-13 are noted below or in the corresponding sections of this report. The scope-of-work for this ESA included an evaluation of the following:

- General physical setting characteristics of the subject property and immediate vicinity through a review of one or more referenced sources, including topographic and geologic maps, soils and hydrologic reports.
- Historical usage of the subject property, adjoining properties, and surrounding area through a review of reasonably ascertainable sources such as land title records, fire insurance maps, city directories, aerial photographs, property tax files, prior environmental assessment reports, and interviews.
- Current land use and existing conditions of the subject property including observations and interviews regarding the use, treatment, storage, disposal or generation of hazardous substances, petroleum products and hazardous, regulated, or medical wastes; equipment that is known or likely to contain polychlorinated biphenyls (PCBs); storage tanks and drums; wells, drains and sumps; and pits, ponds or lagoons.
- Current land use of adjoining and surrounding area properties and the likelihood of known or suspected releases of hazardous substances or petroleum products to impact the subject property.
- Environmental regulatory database information and local environmental records within specified minimum search distances.

Unless otherwise identified in the report, the scope-of-work for this ESA did not include a consideration of the following potential environmental conditions that are outside the scope of ASTM Practice E1527-13 including but not limited to: asbestos-containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality (unrelated to releases of hazardous substances or petroleum products into the environment), industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance, and wetlands.

1.3 Terms and Conditions

This Phase I ESA was performed on behalf of, and solely for the exclusive use of the Client. No other company, entity, or person shall have any rights with regard to LFI's contract with the Client including but not limited to indemnification by LFI, or any rights of reliance on the findings, conclusions, and recommendations of this or any subsequent reports regarding the subject property.

In accordance with ASTM E1527-13 provisions, this report is presumed to be valid for up to one year prior to the date of acquisition or transaction of the property. This presumption assumes that the following components of the report are updated within 180 days prior to the intended date of acquisition or transaction of the property: interviews, environmental lien search, government records reviews, visual inspection of the property and surrounding properties, and declaration by the environmental professional.

1.4 Assumptions, Limitations and Exceptions

This ESA was prepared in accordance with the scope and limitations of ASTM's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13), recognized by the U.S. Environmental Protection Agency (USEPA) as compliant with *Standards and Practices for All Appropriate Inquiries* (AAI) promulgated at 40 CFR Part 312.

This Phase I Environmental Site Assessment has been prepared to assess the property with respect to hazardous substances defined in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601), and petroleum products. As such, this assessment is intended to permit the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide purchaser limitations on CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the subject property consistent with good commercial or customary practice" as defined in 42 USC §9601 (35)(B).

LFI conducted this ESA using reasonable efforts to identify recognized environmental conditions on the subject property. Findings within this report are based on the information obtained during the site reconnaissance, the electronic regulatory file review, a review of historical records, interviews, and from reasonably ascertainable and publicly available information obtained from public agencies and other referenced sources. The presence of recognized environmental conditions on a site may not always be apparent; consequently, the completion of a Phase I ESA cannot provide a guarantee that recognized environmental conditions do not exist in connection with a site.

This report is not definitive and should not be assumed to be a complete or specific determination of all conditions above or below grade. Current subsurface conditions may differ from the conditions indicated by surface observations or historical sources and can be most reliably evaluated through intrusive techniques that were beyond the scope of this ESA. Information in this report is not intended for use as a construction document and should not be used for demolition, renovation, or other construction purposes. LFI makes no representation or warranty that the past or current operations at the site are, or have been, in compliance with applicable federal, state and local laws, regulations and codes.

Environmental Data Resources, Inc. (EDR), an independent environmental data research company, provided the records from the government agency databases referenced in this report. Information regarding surrounding area properties was requested for the specified minimum search distances and was assumed to be correct and complete unless obviously contradicted by LFI's observations or other credible referenced sources reviewed during the ESA. LFI is not a professional title insurance or land surveying firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the site in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

2.0 SITE DESCRIPTION

The location, description, and current uses of the subject property, as well as surrounding properties are presented in the following sections.

2.1 Location and Description

The subject property is located in Flaherty, Kentucky within Meade County. The property consists of approximately 811 acres of predominately agricultural land that is owned by six separate

entities. A site location map is provided in **Figure 1** and an aerial photograph depicting the site and surrounding property use is provided in **Figure 2**. Site photographs are included in **Appendix A**.

2.2 Structures / Improvements

The subject property is predominately undeveloped farmland. Residential and barn structures are located on the eastern and western portions of the site.

2.3 Municipal Services and Utilities

Properties in the vicinity are serviced by the following municipal services and private utilities:

Utility	Provider	
Potable Water Supply	Supply Well	
Sewage Disposal	Septic System	
Natural Gas	Louisville Gas & Electric LG&E	
Electricity		

2.4 Roads

The property is located along Big Spring Road / KY Route 333, St. Martins Road / KY Route 1600 and Stith Valley Road / KY Route 1238. Private drives are located throughout the site. No publicly owned roads are located on the property.

2.5 Topography and Drainage

A review of the *Big Spring, KY* United States Geological Survey (USGS) Topographic Quadrangle (2013) indicates a surface elevation for the subject property averages approximately 740 feet above the National Geodetic Vertical Datum (NGVD) of 1929 (approximately mean sea level). A copy of the topographic map is provided in **Figure 1** and **Appendix B**. According to the United States Department of Agriculture (USDA) Soil Conservation Service (SCS), the dominant soil composition in the vicinity of the subject property is classified as Crider, a well-drained silt loam. Major hydrogeologic features such as a river or lake generally influence regional groundwater flow direction. Surface and/or bedrock topography may also influence regional groundwater flow direction. Based on information gathered during the site visit, the topography of the land, and information contained in the Environmental Data Resources, Inc. (EDR) report, the direction of

surface and groundwater flow is interpreted to be east with the local topographic gradient towards Otter Creek located approximately 6-miles to the east eventually flowing to the Ohio River.

2.6 Current Use of Property

The subject property is predominately undeveloped farmland. Few wooded areas are located on the site. Residential and barn structures are located on the eastern and western portions of the site.

2.7 Current Use of Adjoining Properties

Nearby property usage could potentially impact the surface and subsurface conditions of a site. Developing a history of past to present uses or occupancies can provide an indication of the likelihood of environmental concern. In general, the subject property is located in a low-density area predominantly composed of agricultural and residential properties. An aerial photograph illustrating the surrounding property-use relative to the subject property is included as **Figure 2**. A general description of surrounding land use is as follows:

Direction	Description
North	The subject property is bordered to the north by St. Martins Road, agricultural properties, residential properties and Stith Valley Road.
South	The subject property is adjoined by agricultural wooded and residential properties
East	The subject property is adjoined by agricultural, wooded and residential properties.
West	The subject property is bordered to the west by Big Springs Road, agricultural, wooded and residential properties.

Current Use of Adjoining Properties

No evidence of potential adverse environmental conditions was observed during the survey of adjacent properties from the subject site.

3.0 SITE HISTORY AND HISTORICAL RECORDS REVIEW

Historical information about the subject property, based on an evaluation of available records reviewed during the Phase I, is included in the following sections.

3.1 Past Uses of Property

LFI attempted to determine the historical use of the subject property dating back to 1940 or the first developed use. The following table summarizes the historical use of the subject property:

Historical Use Summary

Subject Property		
Period		Source(s)
1940 - Current	The subject property has been historically and primarily used for agricultural and rural residential purposes.	Topographic Maps Aerial Photographs Interview

3.2 Past Uses of Adjoining Properties

Properties in the vicinity of the subject property have been predominately utilized for agricultural and residential purposes.

3.3 Topographic Maps

Historical topographic maps provide information related to physical land configuration such as elevation, ground slope, surface water and other features. While most buildings in densely developed urban centers are not depicted, topographic maps typically show structures equal to or larger than the size of a single-family residence in rural areas. A search for historical topographic maps of the subject property and surrounding area was conducted by EDR and provided to LFI in a *Historical Topographic Map Report* dated December 15, 2020. Topographic maps were provided for various years between 1941 and 2013. A copy of the EDR *Historical Topographic Map Report* is included in **Appendix B** and summarized as follows:

Year	lssues Noted	Observations
1941 - 1991	No	Subject Property: Sparse residential or barn structures are depicted along Big Springs Road and Stith Valley Road. Surrounding Properties: Sparse rural residential properties are observed. Predominately undeveloped property.
2013(1)	No	Subject Property: No structures or identifying features are shown.
		Surrounding Properties: Major roads and highways are shown, no individual structures.

Historical Topographic Maps

(1) Beginning with the 2010 map updates, the USGS elected to omit building footprints, urban designations, and other points of interest from topographic map updates.

3.4 Aerial Photographs

Aerial photographs are generally of very small scale and only provide a general idea of activity in the area. Aerial photographs are instantaneous records and their usefulness is limited because they do not necessarily reflect the condition of a site before or after the photographs were taken. A search for aerial photographs of the subject property and surrounding area was conducted by EDR and provided to LFI in an *Aerial Photo Decade Package* dated December 17, 2020. Aerial photographs were provided for various years from 1978 to 2016. Additional aerial photographs were obtained from the Google Earth® program. A copy of the EDR *Aerial Photo Report* is included in **Appendix B** and a summary is presented in the following table:

Year	Issues Noted	Observations
1978		Subject Property: Subject property appears to be predominately agricultural in nature. Few residential and barn structures are observed.
- 1983	No	Surrounding Properties: The surrounding properties are generally agricultural in nature. Sparse rural residential and farm structures are observed. Few ponds are observed on the eastern and western portions of the site.
1998 - 2016	No	 Subject Property: Property appears as it is today. Multiple natural gas wells are observed on the subject property. Some minor dumping can be seen in certain areas. Surrounding Properties: Adjoining properties are developed similar to their present-day configuration.

Aerial Photographs

3.5 Sanborn Fire Insurance Maps

A search for Sanborn fire insurance maps for the subject property and surrounding area was conducted by EDR and provided to LFI in a *Certified Sanborn Map Report*, dated December 15, 2020. Fire insurance maps were unavailable for the subject property and surrounding areas. A copy of the report stating "Unmapped Property" is provided in **Appendix B**.

3.6 City Directories

A search of historical city directories for the subject property and surrounding properties was conducted by EDR and provided to LFI in a *City Directory Abstract* dated December 17, 2020. City directories along Big Springs Road, St. Martins Road and Stith Valley Road were reviewed for various years between 1992 and 2017. Listings for the surrounding area were found to be primarily residential listings with no evidence of obvious adverse environmental conditions. A copy of the report is provided in **Appendix B**.

4.0 ENVIRONMENTAL RECORDS REVIEW

An electronic database search of files maintained by the U. S. EPA and the Kentucky Department for Environmental Protection (KDEP) was conducted by EDR on December 15, 2020 to evaluate the regulatory history of the subject property and surrounding properties. The search of standard federal, state, and tribal regulatory agency databases was conducted to (1) identify listings for the subject property and adjoining properties and (2) evaluate sites within applicable ASTM E1527-13 and AAI defined search radii that could cause actual or potential environmental impacts to the subject property. A summary of the results of the regulatory agency database search is provided in the following table:

Regulatory Database	Minimum Search Distance	Property Listed?	# Sites Listed
Federal National Priority List (NPL)	1 Mile	No	0
Federal De-Listed NPL	1⁄2 Mile	No	0
Federal CERCLIS	1⁄2 Mile	No	0
Federal CERCLIS NFRAP	1⁄2 Mile	No	0
Federal RCRA CORRACTS	1 Mile	No	0
Federal RCRA non-CORRACTS TSD	½ Mile	No	0
Federal RCRA Generators	1⁄4 Mile	No	0
Federal Institutional/Engineering Control Registry	1⁄2 Mile	No	0
Federal ERNS	1⁄4 Mile	No	0
State/Tribal Haz. Waste Sites (NPL/CERCLIS)	1 Mile	No	0
State/Tribal Landfill or Solid Waste Disposal Sites	1⁄2 Mile	No	0
State/Tribal Leaking Storage Tank Lists	1⁄2 Mile	No	0
State/Tribal Registered Storage Tank Lists	1⁄4 Mile	No	0
State/Tribal Institutional/Engineering Control Registry	½ Mile	No	0
State/Tribal Voluntary Cleanup Sites	1⁄2 Mile	No	0
Federal/State Brownfield Sites	½ Mile	No	0

Regulatory	Database	Search	Summary
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The fact that sites do or do not appear on a list does not necessarily indicate that an environmental concern exists. In addition, sites may not be mapped in a list search due to inaccuracy of owner/operator records, government records, or errors occurring during conversion of the data by informational sources. A copy of the EDR report that includes a detailed description of each database and the results of the database inquiries is provided in **Appendix C**.

4.1 Listings for Subject Site or Adjoining Properties

The EDR database search did not identify the subject property or any adjoining properties on ASTM or AAI required databases.

4.2 Listings within Established Search Radii

No additional site listings were identified in the EDR report.

The EDR environmental records search also provides a list of "orphan" sites, which are properties identified on ASTM/AAI required databases but that could not be mapped due to poor or inaccurate address information. EDR's records search listed no orphan sites.

4.3 Vapor Encroachment Screen

LFI conducted a Vapor Encroachment Screen (VES) utilizing the Tier 1 methodology provided in ASTM's *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions* (E2600-15). The Tier 1 methodology in E2600-15 was utilized in order to identify a *Vapor Encroachment Condition* (VEC), which is "the presence or likely presence of chemicals of concern (COC) (i.e. – petroleum hydrocarbons and/or chlorinated solvents) vapors in the vadose zone of the subject property caused by the release of vapors from contaminated soil and/or groundwater either on or near the subject property". Information provided by EDR was reviewed to identify facilities within the Area of Concern (AOC) to evaluate whether contamination at nearby properties could represent a vapor encroachment condition (VEC) on the Site. The AOC for chlorinated solvents is defined in ASTM E2600-15 as the area within 1/3 mile of the property boundaries. For facilities at which the only COCs are petroleum hydrocarbons, the AOC includes the area within 0.1 mile of the property boundaries.

A review of historical use information and regulatory database documentation collected in the course of this Phase I ESA did not identify obvious evidence of COC that may migrate as vapors onto the subject property as a result of contaminated soil and/or groundwater known to be present on or near the subject property. Therefore, our opinion based on the Tier 1 VES is that a VEC does not exist on the property.

5.0 SITE RECONNAISSANCE

A site reconnaissance was conducted on December 2, 2020 by Mr. Jason Boston, Project Scientist with LFI. Mr. Boston was unaccompanied during the site reconnaissance.

5.1 Site Reconnaissance Methodologies

The purpose of the reconnaissance was to gather information regarding the environmental conditions at the subject property and surrounding areas. The site reconnaissance consisted of visual observations of the subject property and any existing improvements, adjoining properties as viewed from the subject property, and observations of nearby properties made from public thoroughfares.

At the time of the site reconnaissance, weather conditions were clear and approximately 65° Fahrenheit. No limiting conditions were present. Photographs taken during the site reconnaissance, depicting site conditions at the time of the visit, are provided in **Appendix A**.

5.2 Hazardous Substances/Waste and Petroleum Products

Aboveground diesel storage was observed near the Hamilton property barns. No other obvious indications of generation, use, storage, treatment, or disposal of hazardous substances/wastes or petroleum products were observed during site reconnaissance.

5.3 Underground Storage Tanks (USTs) & Aboveground Storage Tanks (ASTs)

The site reconnaissance included a search for physical features such as fill ports, slumped pavement/ground surface, patched pavement, and evidence of underground piping or pump stations commonly associated with the current or historical presence of storage tanks. The absence of common physical features cannot completely rule out the current or historical existence of storage tanks. Site characteristics such as overgrown vegetation, new pavement, or past renovation/construction/demolition activities may prevent the identification of storage tanks.

5.3.1 Underground Storage Tanks (USTs)

No evidence of current or former USTs was observed or reported during site reconnaissance.

5.3.2 Aboveground Storage Tanks (ASTs)

One 200-gallon diesel and one empty 200-gallon AST for fueling farm equipment are located near the Hamilton property barns. No significant staining was observed near the tanks. No other evidence of current or former ASTs was observed during site reconnaissance.

5.4 Odors

No strong, pungent or noxious odors were noticed during the site reconnaissance.

5.5 Drums and Containers

No obvious indications of drums or containers were observed during the site reconnaissance.

5.6 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) are organic compounds that have been used extensively in electrical capacitors and transformers, lighting ballasts, hydraulic fluids, heat exchange fluids, lubricants, inks, sealants, adhesives and surface coatings since development in 1929. PCB production was banned in the U.S. in 1979 due to health and environmental hazards. Under the Toxic Substances Control Act (TSCA), as outlined in Title 40 of the Code of Federal Regulations (CFR) Part C, 761, the owners of PCB containing equipment are responsible for environmental impairment and liabilities caused by leakage of PCBs to the environment.

No equipment with the potential to contain PCBs was observed during the site reconnaissance.

5.7 Drains and Sumps

No evidence of drains or sumps was observed during the site reconnaissance.

5.8 Pits, Ponds, and Lagoons

A few small ponds are located on the subject property. Mr. Hamilton and Ms. Medley reported the ponds were not utilized as animal waste storage. No other obvious evidence of pits, ponds or lagoons used for waste treatment or disposal was observed or reported during the site reconnaissance.

5.9 Stained Soil / Pavement

No obvious evidence of stained soil or pavement was during the site reconnaissance.

5.10 Stressed Vegetation

No obvious areas of stressed vegetation were observed on the site.

5.11 Waste Generation, Storage, and Disposal

A few areas of historical dumping consisting of discarded metal farm equipment were observed in wooded portions of the Hamilton property. No other obvious evidence of improper waste generation or storage was observed during the site reconnaissance.

5.12 Waste Water

No obvious evidence of process waste water discharge into a drain, ditch, or stream was observed on the subject property during the site reconnaissance.

5.13 Wells

One water supply well was observed on the subject property during the site reconnaissance on the Hamilton property.

5.14 Septic Systems

A septic system was reported to be located on the Hamilton property.

6.0 INTERVIEWS

The following interviews were conducted during the assessment in an effort to obtain information indicating potential RECs in connection with the subject property.

6.1 Property Representative

Interviews by phone were conducted with Ms. Diane Medley and Ms. Ann Doman on November 23, 2020. Ms. Medley and Ms. Doman reported no environmental concerns. Mr. Jeff Hamilton was interviewed during the site reconnaissance. Mr. Hamilton reported no environmental concerns associated with the property. Mr. Karl Gohl was interviewed by phone on March 10, 2021. Mr.

Gohl reported no concerns associated with the property. LFI reached out to Mr. Jerry Phillips; however, call was not returned.

6.2 Occupants

The subject property is utilized for agricultural and residential purposes.

6.3 Local Government Officials

Based on historical agricultural and residential uses of the site, no local government officials were contacted as part of this assessment.

7.0 NON-SCOPE CONSIDERATIONS

The following sections address environmental issues or conditions on the subject property that are outside the scope of ASTM E1527-13. Substances or materials may be present on the subject property that may lead to contamination of the subject property but are not defined by CERCLA as hazardous substances.

7.1 Asbestos Containing Materials (ACMs)

Asbestos is a general term for a group of fibrous minerals (primarily chrysotile, amosite and crocidolite) that have long been used as fireproof insulation and as a strengthener in pipe insulation, roofing tiles, floor tiles, wall coverings and other materials. Undisturbed asbestos-containing material (ACM) is not dangerous; however, when ACM is broken or torn, as during remodeling or demolition, the fibers can be spread into the air, especially if the material is friable. A friable material, by definition, is one that can be crushed, crumbled, pulverized, or reduced by hand pressure when dry. Due to health hazards, ACM use has been phased out since approximately 1978. The U.S. EPA classifies ACM as any material which contains more than 1% asbestos by Polarized Light Microscopy (PLM) analysis.

An ACM survey was not included in the scope of work for this assessment. The properties are to be leased from the current owners.

7.2 Lead-Based Paint (LBP)

Use of lead in household paint was banned by the U.S. EPA effective January 1, 1978. The U.S. EPA and the U.S. Department of Housing and Urban Development (HUD) define lead-based paint (LBP) as any paint that contains 1.0 mg/cm^2 or higher of lead by x-ray fluorescence (XRF) analysis or 0.5% (5,000 ppm) lead by weight.

An LBP survey was not included in the scope of work for this assessment. The properties are to be leased from the current owners.

8.0 USER PROVIDED INFORMATION

In accordance with the ASTM E1527-13 and AAI standards, the user of this ESA, (the Clients), may obtain information through other due diligence activities associated with the pending property transaction that could help identify the possibility of potential environmental conditions in connection with the subject property.

8.1 Environmental Liens or Activity and Use Limitations

The Client has reported no information regarding environmental liens or use limitations.

8.2 Common/Specialized Knowledge or Experience

The Client has reported no information regarding common/specialized knowledge or experience relative to the subject property.

8.3 Reasons for Significantly Lower Purchase Price

The Client reported the site will be leased.

9.0 DATA GAPS

No data gaps as defined by ASTM E1527-13, (i.e. considered to have significantly affected the ability to identify recognized environmental conditions in connection with the subject property) were identified during completion of this assessment. A User Questionnaire had not been returned by the issuance of this report; however, LFI does not consider that to represent a significant data gap.

10.0 FINDINGS AND OPINIONS

The following summarizes known or suspected RECs, HRECs, CRECs, *de minimis* conditions, and non-scope environmental conditions in connection with the subject property based on information collected during the assessment. For each condition, LFI provides an opinion of the impact on the site based on an evaluation of the results of record reviews, site reconnaissance work and interviews performed as part of this assessment. LFI also provides a rationale for concluding that an environmental condition is or is not a REC.

Recognized Environmental Conditions (REC)

This assessment has revealed no evidence of RECs in connection with the subject property.

Historical Recognized Environmental Conditions (HREC)

This assessment has revealed no evidence of HRECs in connection with the subject property.

Controlled Recognized Environmental Conditions (CREC)

This assessment has revealed no evidence of CRECs in connection with the subject property.

De Minimis Conditions

No de minimis conditions were observed in connection with the subject property.

Non-Scope Environmental Conditions

No non-scope environmental conditions were observed in connection with the subject property.

11.0 CONCLUSIONS AND RECOMMENDATIONS

LFI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the farm property located in Meade County, Kentucky, the subject property. Any exceptions to, or deletions from, this practice were described in this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the property. Therefore, no further assessment is recommended.

12.0 CERTIFICATION OF ENVIRONMENTAL PROFESSIONAL

LFI has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of this part.

Environmental Professional

December 18, 2020

Date

13.0 REFERENCES

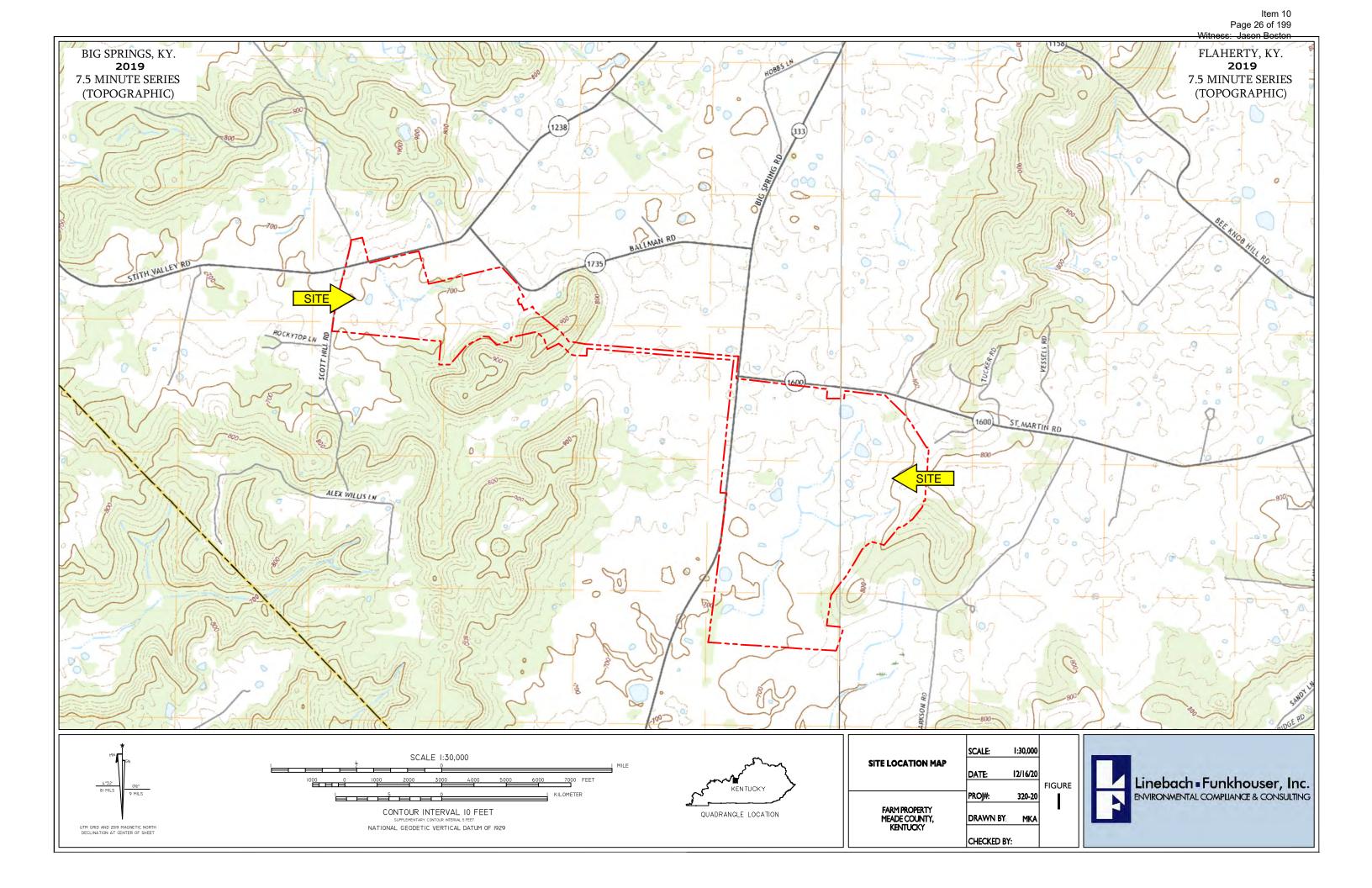
Environmental Data Resources, Inc. *The EDR Radius Map Report Meade Co. Big Spring Road Vine Grove, KY 40175. Inquiry Number: 6302981.2s.* December 15, 2020.

- Environmental Data Resources, Inc. EDR Historical Topographic Map Report Meade Co. Big Spring Road Vine Grove, KY 40175. Inquiry Number: 6302981.4. December 15, 2020.
- Environmental Data Resources, Inc. EDR Aerial Photo Decade Package Meade Co. Big Spring Road Vine Grove, KY 40175. Inquiry Number: 6302981.9. December 17, 2020.
- Environmental Data Resources, Inc. Certified Sanborn Map Report Meade Co. Big Spring Road Vine Grove, KY 40175. Inquiry Number: 6302981.3. December 15, 2020.

Environmental Data Resources, Inc. EDR City Directory Image Report Meade Co. Big Spring Road Vine Grove, KY 40175. Inquiry Number: 6302981.5. December 18, 2020.

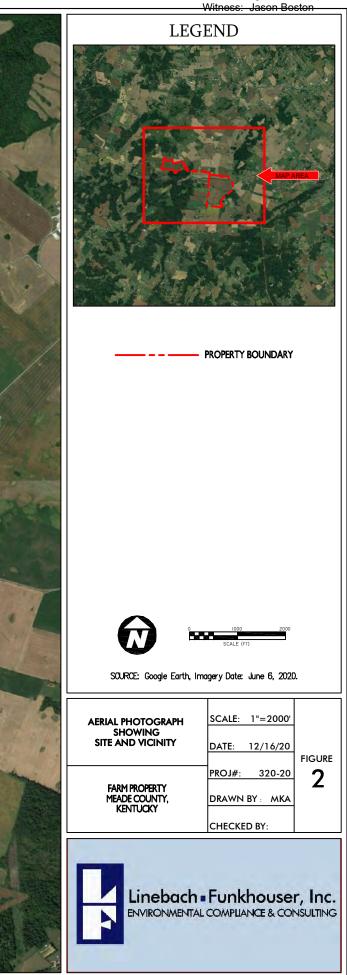
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Figures



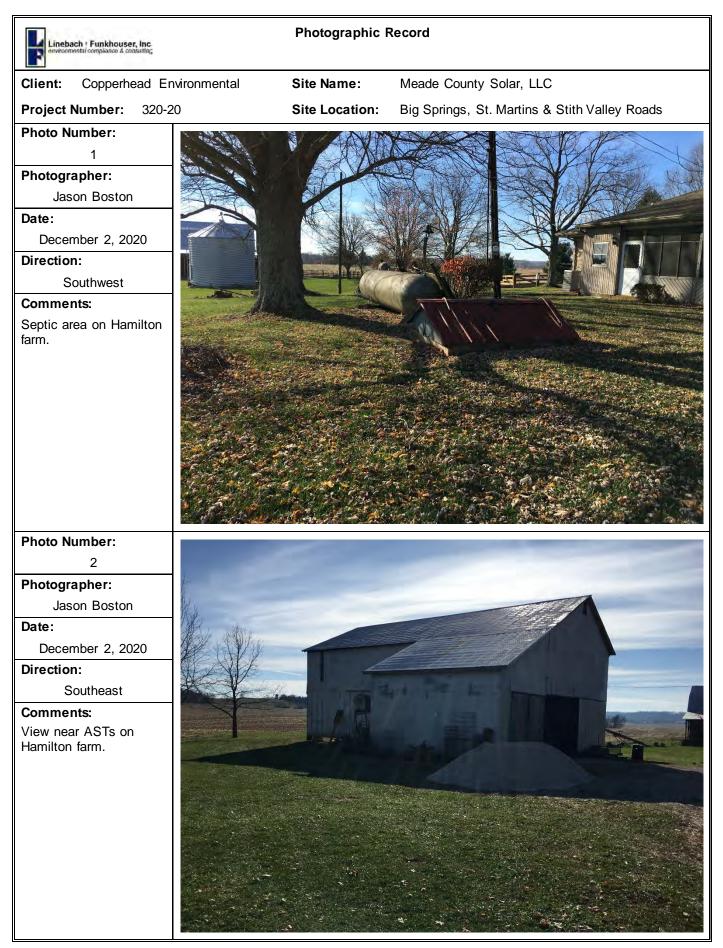


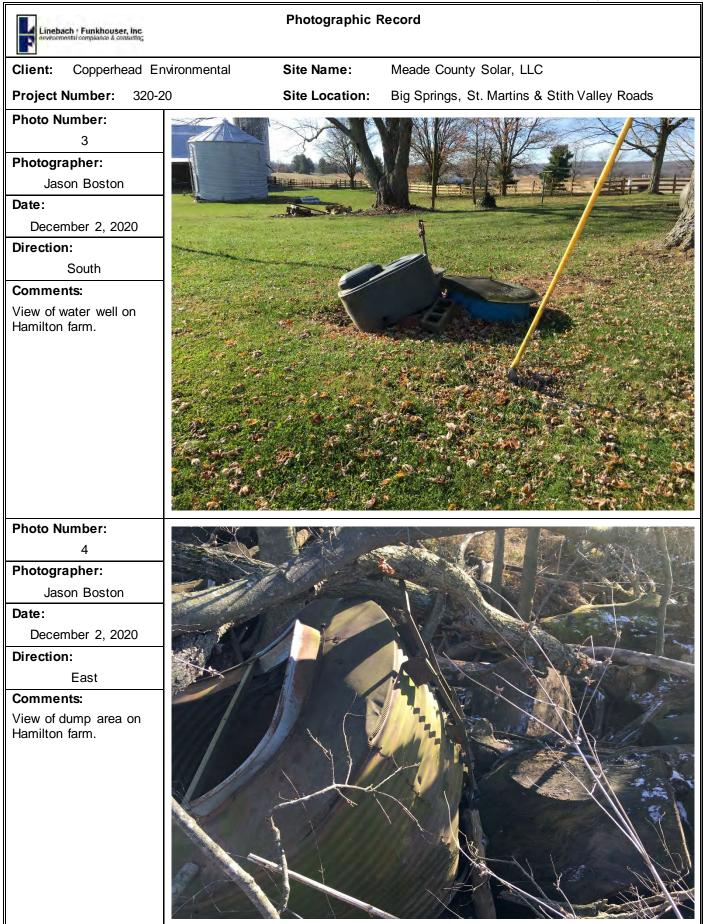
Item 10 Page 27 of 199 tness: Jason Boston



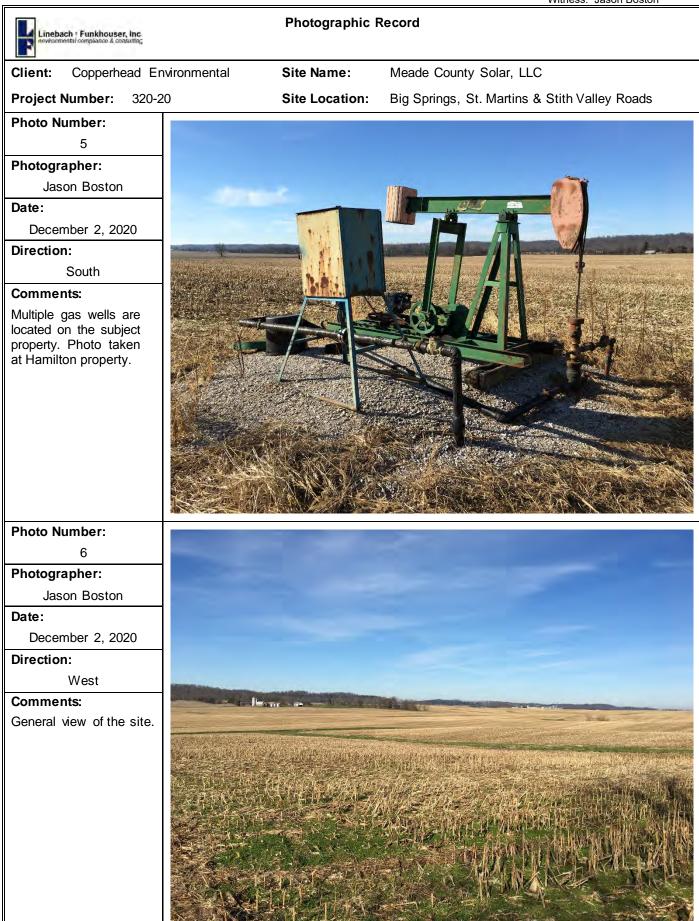
Appendix A

Site Photographs

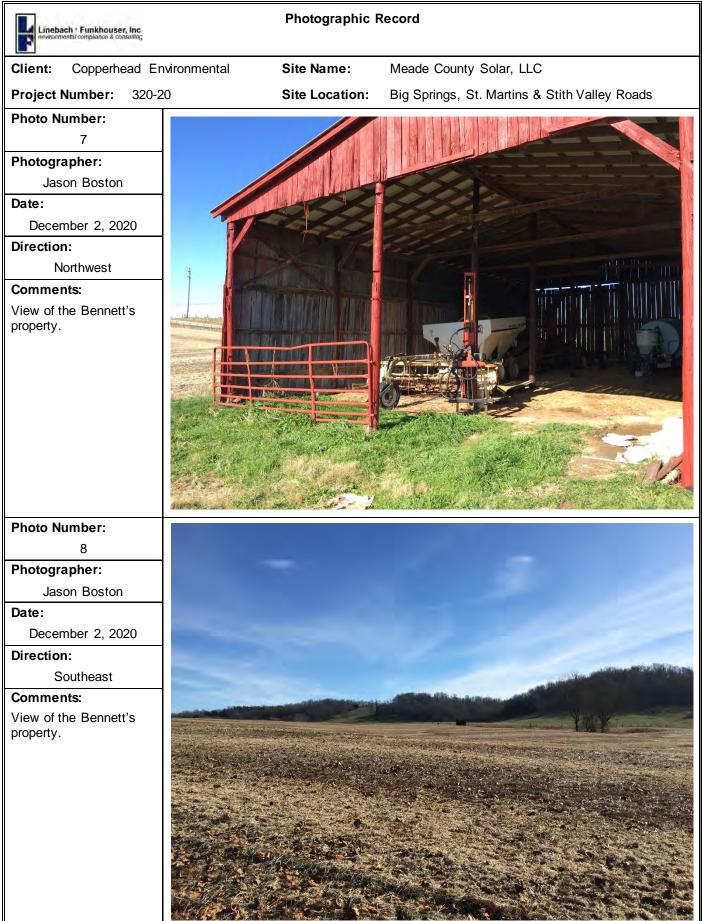


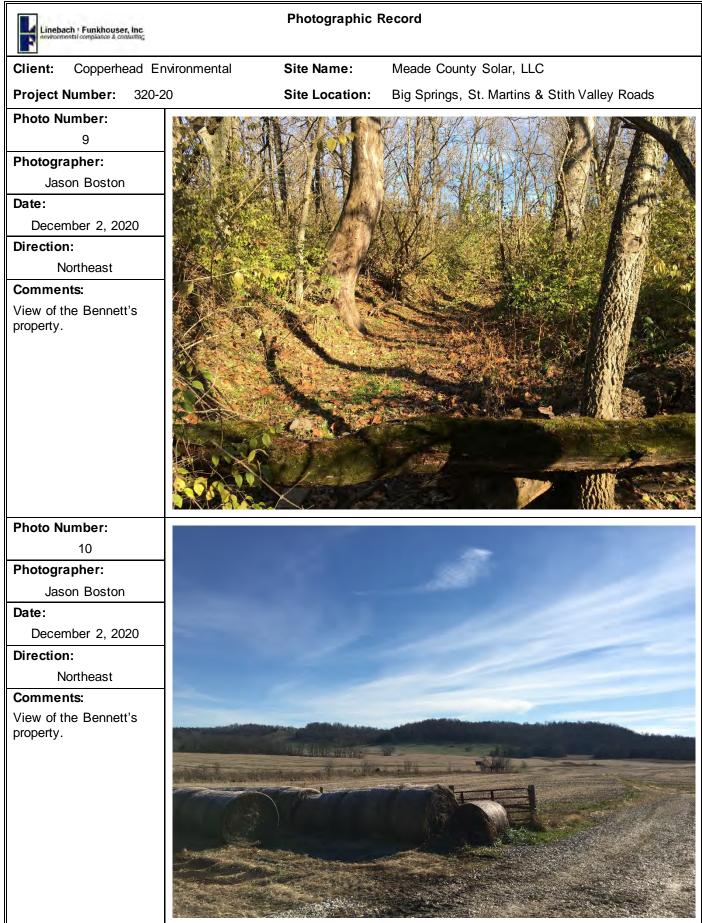


Item 10 Page 31 of 199 Witness: Jason Boston



Item 10 Page 32 of 199 Witness: Jason Boston





Appendix B

Historical Research Documentation

Meade Co. Big Spring Road Vine Grove, KY 40175

Inquiry Number: 6302981.4 December 15, 2020

EDR Historical Topo Map Report with QuadMatch™



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



Meade Co.

Big Spring Road

Vine Grove, KY 40175

EDR Inquiry # 6302981.4

Linebach Funkhouser Inc. 114 Fairfax Ave Louisville, KY 40207 Contact: Jason Boston



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Linebach Funkhouser Inc. 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. EDRs 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:	Coordinates:	
P.O.#	NA	Latitude:	37.834656 37° 50' 5" North	
Project:	320-20	Longitude:	-86.145761 -86° 8' 45" West	
-		UTM Zone:	Zone 16 North	
		UTM X Meters:	575168.68	
		UTM Y Meters:	4187813.75	
		Elevation:	739.70' above sea level	
Maps Provid	led:			
2013				
1991				
1960, 196	1			

1948 1947 1941

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Topo Sheet Key

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

2013 Source Sheets





Big Spring 2013 7.5-minute, 24000

Flaherty 2013 7.5-minute, 24000

1991 Source Sheets





Big Spring 1991 7.5-minute, 24000 Aerial Photo Revised 1987

Flaherty 1991 7.5-minute, 24000 Aerial Photo Revised 1987

1960, 1961 Source Sheets





Flaherty 1960 7.5-minute, 24000 Aerial Photo Revised 1947

Big Spring 1961 7.5-minute, 24000 Aerial Photo Revised 1946

1948 Source Sheets



Flaherty 1948 7.5-minute, 24000 Aerial Photo Revised 1946



Big Spring 1948 7.5-minute, 24000 Aerial Photo Revised 1946

Topo Sheet Key

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

1947 Source Sheets

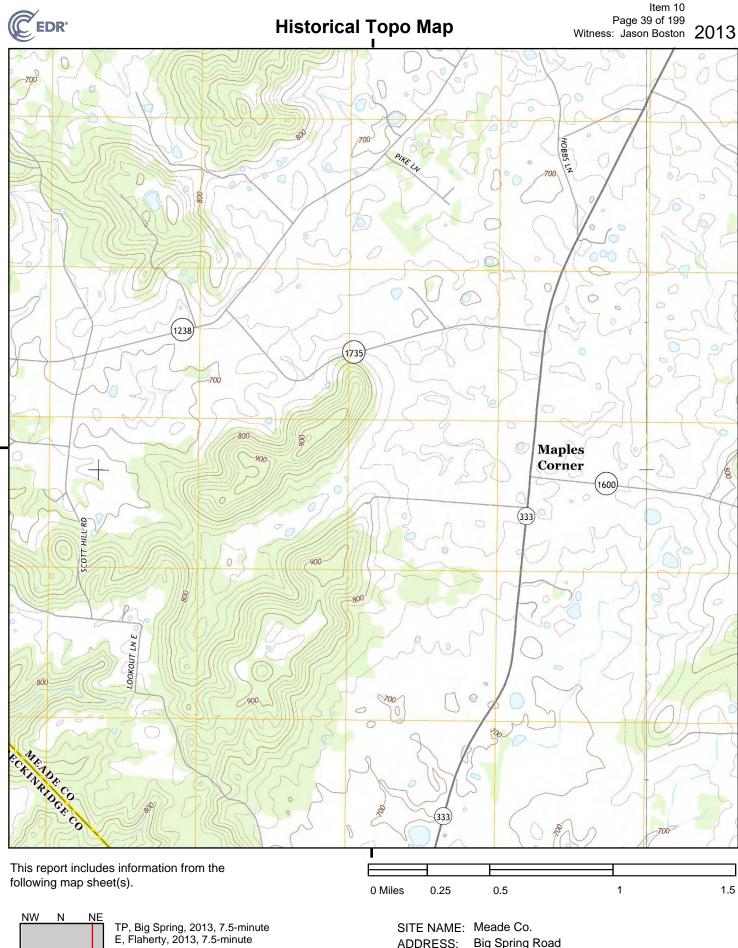


Ekron 1947 15-minute, 62500 Aerial Photo Revised 1946

1941 Source Sheets



Ekron 1941 15-minute, 62500 Aerial Photo Revised 1940



E

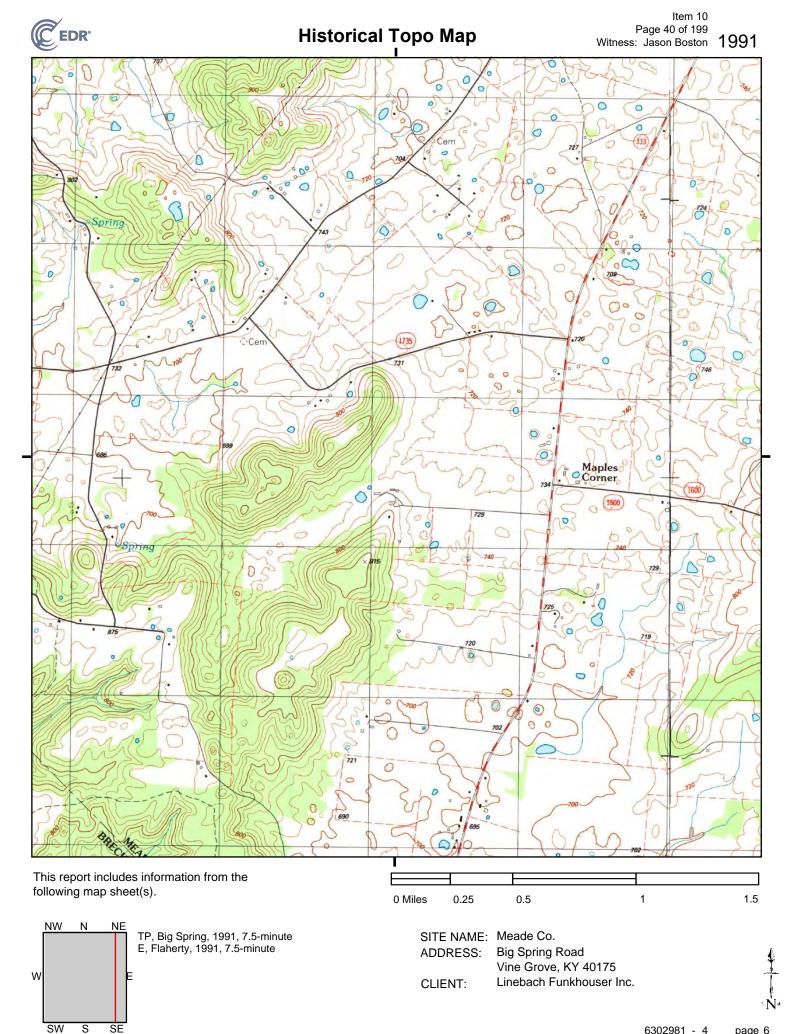
W

SW

S

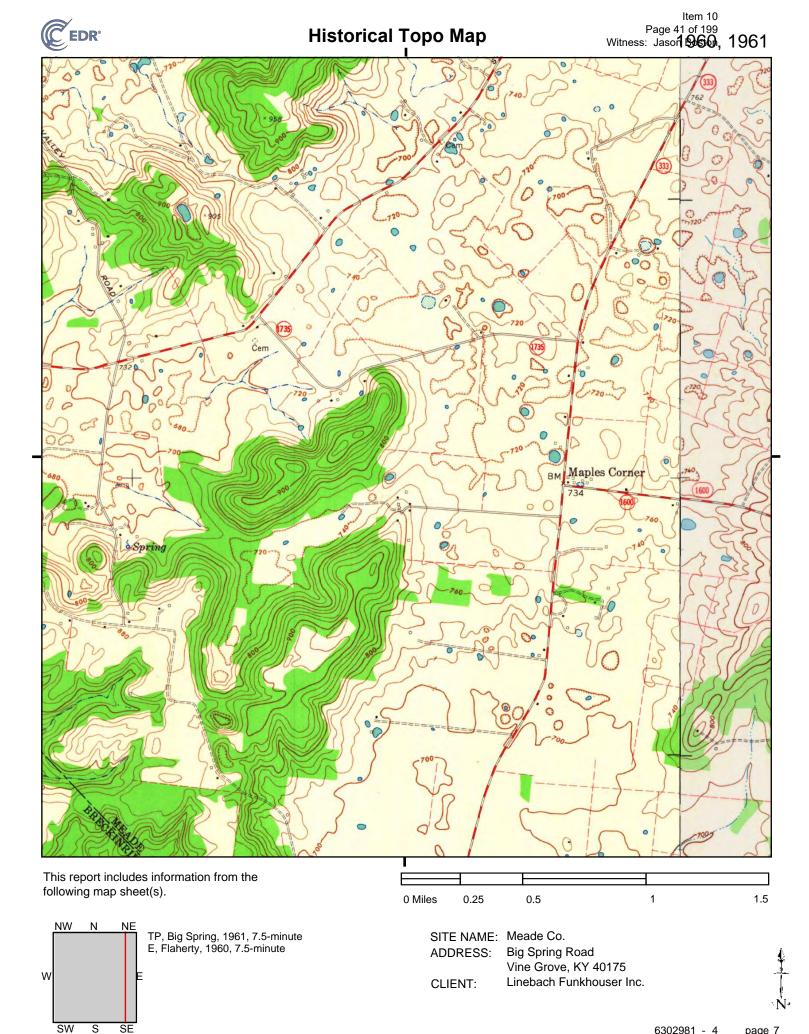
SE

SITE NAME: Meade Co. ADDRESS: Big Spring Road Vine Grove, KY 40175 CLIENT: Linebach Funkhouser Inc.



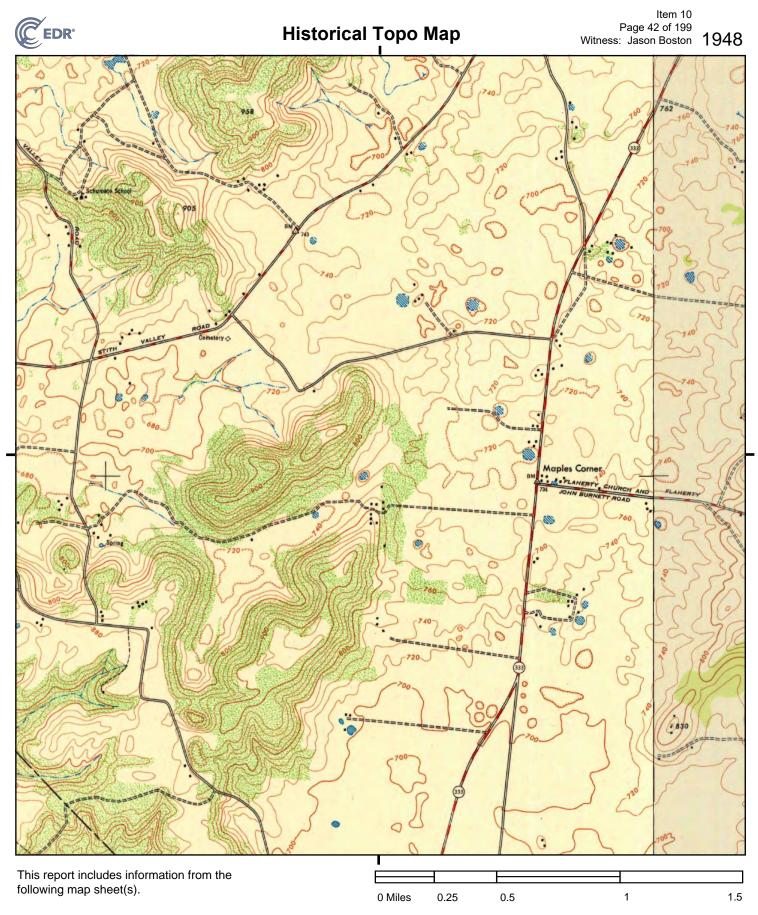
6302981 - 4

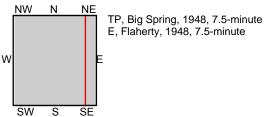
page 6

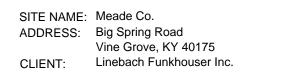


S

SE









E SW S SE

Linebach Funkhouser Inc.

CLIENT:



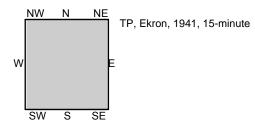
Historical Topo Map



0 Miles

0.25

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



SITE NAME:	Meade Co.
ADDRESS:	Big Spring Road
	Vine Grove, KY 40175
CLIENT:	Linebach Funkhouser Inc.

0.5

1.5

1

Meade Co.

Big Spring Road Vine Grove, KY 40175

Inquiry Number: 6302981.8 December 17, 2020

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

Client Name:

Meade Co. Big Spring Road Vine Grove, KY 40175 EDR Inquiry # 6302981.8

Linebach Funkhouser Inc. 114 Fairfax Ave Louisville, KY 40207 Contact: Jason Boston



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:			
<u>Year</u>	<u>Scale</u>	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1983	1"=1000'	Flight Date: March 25, 1983	USGS
1978	1"=500'	Flight Date: April 01, 1978	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Meade Co. Big Spring Road Vine Grove, KY 40175

Inquiry Number: 6302981.3 December 15, 2020

Certified Sanborn® Map Report



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

12/15/20

Certified Sanborn® Map Report

Site Name:	Client Name:	
Meade Co.	Linebach Funkhouser Inc.	<i>a</i>
Big Spring Road	114 Fairfax Ave	
Vine Grove, KY 40175	Louisville, KY 40207	
EDR Inquiry # 6302981.3	Contact: Jason Boston	

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Linebach Funkhouser Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanbo	orn Results:	
Certification #	1519-4B95-A7D5	
PO #	NA	
Project	320-20	

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results Certification #: 1519-4B95-A7D5

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

	Library of Congress
1	

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix C

Regulatory Database Documentation

Meade Co. Big Spring Road Vine Grove, KY 40175

Inquiry Number: 6302981.2s December 15, 2020

The EDR Radius Map[™] Report with GeoCheck®



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

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

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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.

TARGET PROPERTY INFORMATION

ADDRESS

BIG SPRING ROAD VINE GROVE, KY 40175

COORDINATES

Latitude (North):	37.8346560 - 37° 50' 4.76"
Longitude (West):	86.1457610 - 86° 8' 44.73"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	575170.6
UTM Y (Meters):	4187608.5
Elevation:	740 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date: 5940275 BIG SPRING, KY 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: Source:

20140705 USDA

RELATIVE

ELEVATION

DIST (ft. & mi.) DIRECTION

MAPPED SITES SUMMARY

DATABASE ACRONYMS

Target Property Address: BIG SPRING ROAD VINE GROVE, KY 40175

Click on Map ID to see full detail.

SITE NAME

MAP ID

NO MAPPED SITES FOUND

ADDRESS

6302981.2s Page 2

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL_____ National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY______ Federal Facility Site Information listing SEMS______ Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE_____ Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS_____ Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	_ RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity
	Generators)

Federal institutional controls / engineering controls registries

LUCIS...... Land Use Control Information System

US ENG CONTROLS...... Engineering Controls Sites List US INST CONTROLS...... Institutional Controls Sites List

Federal ERNS list

ERNS_____ Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS_____ State Leads List

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

SWF/LF..... Solid Waste Facilities List

State and tribal leaking storage tank lists

State and tribal registered storage tank lists

FEMA UST	Underground Storage Tank Listing
UST	Underground Storage Tank Database
AST	Above Ground Storage Tanks
INDIAN UST	. Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS Engineering Controls Site Listing INST CONTROL State Superfund Database

State and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing VCP...... Voluntary Cleanup Program Sites

State and tribal Brownfields sites

BROWNFIELDS_____ Kentucky Brownfield Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycling Facilities
HIST LF	Historical Landfills
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations

ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
	Clandestine Drub Lab Location Listing
US CDL	National Clandestine Laboratory Register

Local Land Records

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	

Other Ascertainable Records

FUDSDODSCRD DRYCLEANERSUS FIN ASSUREPA WATCH LIST2020 COR ACTIONTSCATRISSSTSSSTSRODRMPRAATSPRPPADSICISFTTS	 2020 Corrective Action Program List Toxic Substances Control Act Toxic Chemical Release Inventory System Section 7 Tracking Systems Records Of Decision Risk Management Plans RCRA Administrative Action Tracking System Potentially Responsible Parties PCB Activity Database System Integrated Compliance Information System FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) Material Licensing Tracking System Steam-Electric Plant Operation Data Coal Combustion Residues Surface Impoundments List PCB Transformer Registration Database FIFRA/TSCA Tracking System Administrative Case Listing Incident and Accident Data Superfund (CERCLA) Consent Decrees Indian Reservations Formerly Utilized Sites Remedial Action Program Uranium Mill Tailings Sites Lead Smelter Sites Aerometric Information Retrieval System Facility Subsystem
US AIRS	Aerometric Information Retrieval System Facility Subsystem
ABANDONED MINES	
DOCKET HWC	_ Hazardous Waste Compliance Docket Listing

	Unexploded Ordnance Sites
	_ EPA Fuels Program Registered Listing
	Permitted Airs Facility Listing
ASBESTOS	
COAL ASH	Coal Ash Disposal Sites
DRYCLEANERS	Drycleaner Listing
Financial Assurance	Financial Assurance Information Listing
LEAD	Environmental Lead Program Report Tracking Database
NPDES	Permitted Facility Listing
UIC	UIC Information
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

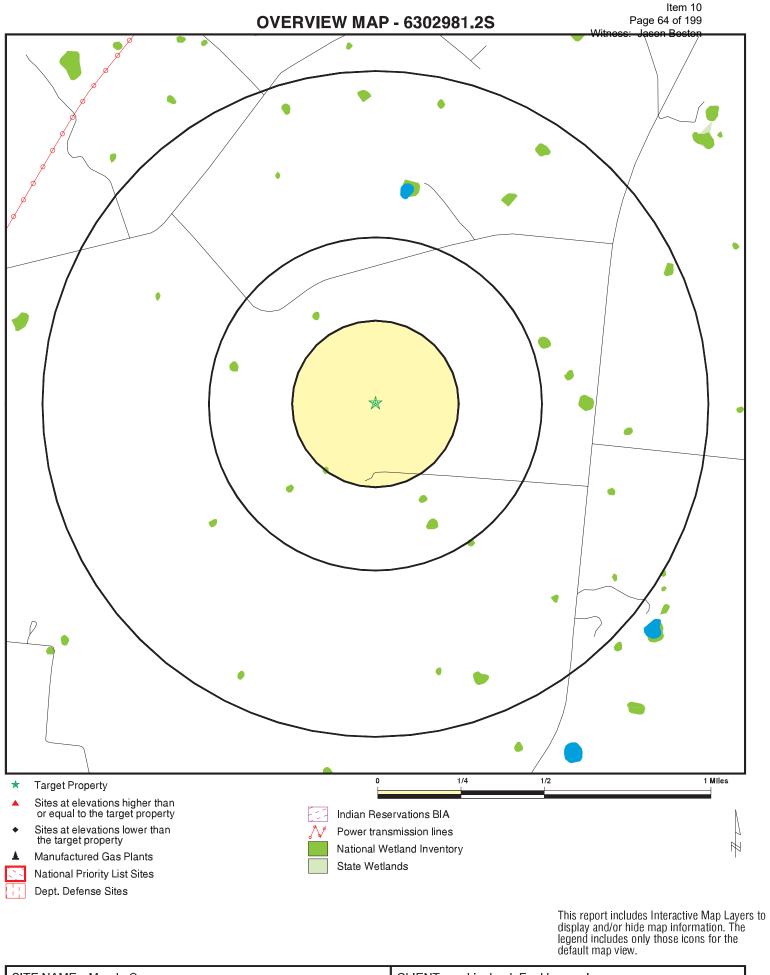
RGA HWS______ Recovered Government Archive State Hazardous Waste Facilities List RGA LF______ Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

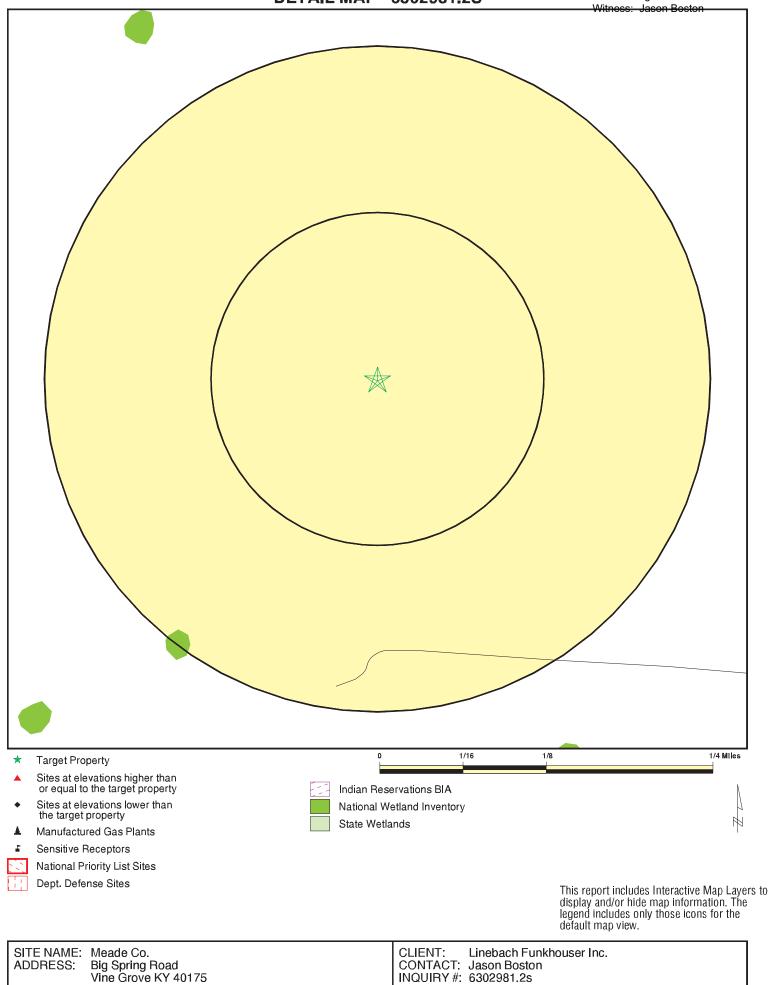
Surrounding sites were not identified.

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

There were no unmapped sites in this report.



SITE NAME:		CLIENT:	Linebach Funkhouser Inc.
ADDRESS:	Big Spring Road	CONTACT:	Jason Boston
	Vine Grove KY 40175	INQUIRY #:	6302981.2s
LAT/LONG:	37.834656 / 86.145761	DATE:	December 15, 2020 4:44 pm



LAT/LONG:

37.834656 / 86.145761

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS							
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal sit								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank li	sts						
PSTEAF INDIAN LUST SB193	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
State and tribal register	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering control / engin		S						
ENG CONTROLS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntar	y cleanup site	s						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS	5						
		-						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY HIST LF	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI IHS OPEN DUMPS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Local Lists of Hazardous Contaminated Sites			-	-	-			-
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
	TP		NR	NR	NR	NR	NR	0
Local Land Records	TD							0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency F		TS			ND			0
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD SCRD DRYCLEANERS	1.000 0.500		0 0	0 0	0 0	0 NR	NR NR	0 0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

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 PADS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	õ
COAL ASH DOE	TP		NR	NR	NR	NR	NR	Ö
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
	1.000		0	0	0	0 0	NR NR	0
INDIAN RESERV FUSRAP	1.000 1.000		0 0	0 0	0 0	0	NR	0 0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	õ
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 FUELS PROGRAM	TP 0.250		NR 0	NR 0	NR NR	NR NR	NR NR	0 0
AIRS	0.230 TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	õ
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
	TP		NR	NR	NR	NR	NR	0
	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		Ō	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Go	ovt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
								-

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Item 10 Page 70 of 199 Witness: Jason Boston

MAP FINDINGS

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records.			ORPHAN SUMMARY		Wit	Item 10 Page 71 of 199 ness: Jason Boston
City	EDR ID	Site Name		Site Address	Zip	Database(s)
		NO SITES FOUND				

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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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: N/A Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: N/A Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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.

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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: N/A Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 10/02/2020 Next Scheduled EDR Contact: 01/11/2021 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 know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/25/2021 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: 06/15/2020	Source: EPA
Date Data Arrived at EDR: 06/22/2020	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2020	Last EDR Contact: 09/22/2020
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/04/2021
	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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Quarterly

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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88

Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 08/06/2020 Date Data Arrived at EDR: 08/21/2020 Date Made Active in Reports: 11/11/2020 Number of Days to Update: 82 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 02/22/2021 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: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 13 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies

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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/17/2020 Number of Days to Update: 87

Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 08/24/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/26/2020	Telephone: 502-564-6716
Date Made Active in Reports: 11/17/2020	Last EDR Contact: 11/16/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/08/2021
	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: 05/21/2020 Date Data Arrived at EDR: 07/24/2020 Date Made Active in Reports: 10/12/2020 Number of Days to Update: 80

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 10/14/2020 Next Scheduled EDR Contact: 02/08/2021 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: 07/01/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/07/2020	Telephone: 502-564-5981
Date Made Active in Reports: 09/24/2020	Last EDR Contact: 10/06/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/18/2021
	Data Release Frequency: Quarterly

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

Date of Government Version: 04/14/2020	Source: EPA Region 10
Date Data Arrived at EDR: 05/20/2020	Telephone: 206-553-2857
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Data of Covernment Version, 04/44/2022	Source: EDA Docion 9
Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/20/2020	Source: EPA Region 8 Telephone: 303-312-6271
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies
NDIAN LUST R1: Leaking Underground Storage A listing of leaking underground storage tank	
Date of Government Version: 04/29/2020	Source: EPA Region 1
Date Data Arrived at EDR: 05/20/2020	Telephone: 617-918-1313
Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84	Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021
Number of Days to Opdate. Of	Data Release Frequency: Varies
NDIAN LUST R5: Leaking Underground Storage Leaking underground storage tanks located o	Tanks on Indian Land In Indian Land in Michigan, Minnesota and Wisconsin.
Date of Government Version: 04/14/2020	Source: EPA, Region 5
Date Data Arrived at EDR: 05/20/2020	Telephone: 312-886-7439
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies
NDIAN LUST R4: Leaking Underground Storage LUSTs on Indian land in Florida, Mississippi a	
Date of Government Version: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-8677
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
NDIAN LUST R9: Leaking Underground Storage LUSTs on Indian land in Arizona, California, N	
Date of Government Version: 04/08/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/20/2020	Telephone: 415-972-3372
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies
NDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84	Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021
Manuel of Days to Optiale. 04	Data Release Frequency: Varies
INDIAN LUST R7: Leaking Underground Storage - LUSTs on Indian land in Iowa, Kansas, and N	
Date of Government Version: 04/15/2020	Source: EPA Region 7
	Telephone: 913-551-7003
Date Data Arrived at EDR: 05/20/2020	
Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020

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: 07/21/2020 Date Data Arrived at EDR: 09/03/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 83 Source: FEMA Telephone: 202-646-5797 Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Varies

UST: Underground Storage Tank Database

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

Date of Government Version: 08/05/2020 Date Data Arrived at EDR: 08/26/2020 Date Made Active in Reports: 11/17/2020 Number of Days to Update: 83 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 11/19/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

Date of Government Version: 08/18/2020	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 08/19/2020	Telephone: 502-564-4010
Date Made Active in Reports: 11/06/2020	Last EDR Contact: 11/16/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/13/2020 Number of Days to Update: 85 Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 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: 04/03/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84 Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/29/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 05/20/2020	Telephone: 617-918-1313
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/14/2020	Source: EPA Region 10
Date Data Arrived at EDR: 05/20/2020	Telephone: 206-553-2857
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/08/2020 Date Data Arrived at EDR: 05/20/2020	Source: EPA Region 9 Telephone: 415-972-3368
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/08/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84 Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/14/2020Source: EDate Data Arrived at EDR: 05/20/2020TelephoneDate Made Active in Reports: 08/12/2020Last EDRNumber of Days to Update: 84Next Sche

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 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: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-9424
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/01/2021
	Data Release Frequency: Varies

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: 08/24/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/26/2020	Telephone: 502-564-6716
Date Made Active in Reports: 11/17/2020	Last EDR Contact: 11/16/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/08/2021
	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: 08/24/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/26/2020	Telephone: 502-564-6716
Date Made Active in Reports: 11/17/2020	Last EDR Contact: 11/15/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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: 09/16/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/04/2021
	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: 06/23/2020 Date Data Arrived at EDR: 06/25/2020 Date Made Active in Reports: 09/11/2020 Number of Days to Update: 78 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 09/23/2020 Next Scheduled EDR Contact: 01/11/2021 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: 05/06/2020 Date Data Arrived at EDR: 07/09/2020 Date Made Active in Reports: 09/24/2020 Number of Days to Update: 77 Source: Division of Compliance Assistance Telephone: 502-564-0323 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Varies

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: 09/14/2020 Date Data Arrived at EDR: 09/15/2020 Date Made Active in Reports: 12/10/2020 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 12/11/2020 Next Scheduled EDR Contact: 03/29/2021 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: 10/12/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/25/2021
	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: 10/20/2020
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/08/2021
	Data Release Frequency: Varies

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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: 10/13/2020
Number of Days to Update: 137	Next Scheduled EDR Contact: 02/01/2021
	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: 04/01/2014Source: Department of Health & Human Serivces, Indian Health ServiceDate Data Arrived at EDR: 08/06/2014Telephone: 301-443-1452Date Made Active in Reports: 01/29/2015Last EDR Contact: 10/30/2020Number of Days to Update: 176Next Scheduled EDR Contact: 02/08/2021Data 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: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: No Update Planned
CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.	
Date of Government Version: 08/24/2020 Date Data Arrived at EDR: 08/26/2020 Date Made Active in Reports: 11/16/2020 Number of Days to Update: 82	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/19/2020	Telephone: 202-307-1000
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 11/16/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/08/2021
	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.

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 09/20/2020	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/22/2020	Telephone: 202-366-4555
Date Made Active in Reports: 12/14/2020	Last EDR Contact: 09/22/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 01/04/2021
	Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 06/25/2020	Source: DEP, Emergency Response
Date Data Arrived at EDR: 07/09/2020	Telephone: 502-564-2380
Date Made Active in Reports: 09/24/2020	Last EDR Contact: 10/07/2020
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/25/2021
	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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 08/05/2020 Date Data Arrived at EDR: 08/13/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 69 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 11/17/2020 Next Scheduled EDR Contact: 03/01/2021 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: 12/31/2005Source: USGSDate Data Arrived at EDR: 11/10/2006Telephone: 888Date Made Active in Reports: 01/11/2007Last EDR ContaNumber of Days to Update: 62Next Scheduler

Source: USGS Telephone: 888-275-8747 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Semi-Annually

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 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019 Number of Days to Update: 574	Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/08/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: N/A
SCRD DRYCLEANERS: State Coalition for Reme	

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 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 63 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 11/09/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/21/2020 Date Data Arrived at EDR: 09/22/2020 Date Made Active in Reports: 12/14/2020 Number of Days to Update: 83 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 11/02/2020 Next Scheduled EDR Contact: 02/15/2021 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 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 73 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 11/06/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Varies

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 Date Data Arrived at EDR: 06/17/2020 Date Made Active in Reports: 09/10/2020 Number of Days to Update: 85 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 09/18/2020 Next Scheduled EDR Contact: 12/28/2020 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 Date Data Arrived at EDR: 08/14/2020 Date Made Active in Reports: 11/04/2020 Number of Days to Update: 82 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 11/17/2020 Next Scheduled EDR Contact: 03/01/2021 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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 79 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Annually

RMP: Risk Management Plans

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: 07/24/2020 Date Data Arrived at EDR: 08/03/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 10/14/2020 Next Scheduled EDR Contact: 02/01/2021 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 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 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: 12/02/2020
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/15/2021
	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: 10/02/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 01/18/2021
	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 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 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: 08/05/2020	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/10/2020	Telephone: 301-415-7169
Date Made Active in Reports: 10/08/2020	Last EDR Contact: 10/12/2020
Number of Days to Update: 59	Next Scheduled EDR Contact: 01/31/2021
	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: 12/01/2020
Number of Days to Update: 42	Next Scheduled EDR Contact: 03/15/2021
	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	
Date Data Arrived at EDR: 03/05/2019	
Date Made Active in Reports: 11/11/2019	
Number of Days to Update: 251	

Source: Environmental Protection Agency Telephone: N/A Last EDR Contact: 11/30/2020 Next Scheduled EDR Contact: 03/15/2021 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: 11/06/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/15/2021
	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: 09/24/2020 Next Scheduled EDR Contact: 01/11/2021 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 Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 10/27/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/08/2021
	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: 06/30/2020	5
Date Data Arrived at EDR: 07/15/2020	٦
Date Made Active in Reports: 07/21/2020	L
Number of Days to Update: 6	Ν

Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 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: 12/31/2017 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 151 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY

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	Sou
Date Data Arrived at EDR: 07/14/2015	Tele
Date Made Active in Reports: 01/10/2017	Last
Number of Days to Update: 546	Next

Source: USGS Telephone: 202-208-3710 Last EDR Contact: 10/06/2020 Next Scheduled EDR Contact: 01/18/2021 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		
Date Data Arrived at EDR: 09/11/2018		
Date Made Active in Reports: 09/14/2018		
Number of Days to Update: 3		

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 11/06/2020 Next Scheduled EDR Contact: 02/15/2021 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 Date Data Arrived at EDR: 11/15/2019 Date Made Active in Reports: 01/28/2020 Number of Days to Update: 74 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/20/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020Source: EnvironmDate Data Arrived at EDR: 11/05/2020Telephone: 703-6Date Made Active in Reports: 11/25/2020Last EDR ContactNumber of Days to Update: 20Next Scheduled E

Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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 1931and 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 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36 Source: American Journal of Public Health Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 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.

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually	
US AIRS MINOR: Air Facility System Data A listing of minor source facilities.		
Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually	
MINES VIOLATIONS: MSHA Violation Assessmer Mines violation and assessment information.	nt Data Department of Labor, Mine Safety & Health Administration.	
Date of Government Version: 09/10/2020 Date Data Arrived at EDR: 09/15/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 66	Source: DOL, Mine Safety & Health Admi Telephone: 202-693-9424 Last EDR Contact: 11/24/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly	
US MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes	
Date of Government Version: 08/04/2020 Date Data Arrived at EDR: 08/25/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 85	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Semi-Annually	
US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.		
Date of Government Version: 05/06/2020 Date Data Arrived at EDR: 05/27/2020 Date Made Active in Reports: 08/13/2020 Number of Days to Update: 78	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies	
US MINES 3: Active Mines & Mineral Plants Database Listing Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.		
Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011 Number of Days to Update: 97	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies	
ABANDONED MINES: Abandoned Mines An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.		

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/16/2020 Date Data Arrived at EDR: 09/17/2020 Date Made Active in Reports: 12/10/2020 Number of Days to Update: 84 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/10/2020 Next Scheduled EDR Contact: 03/22/2021 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: 09/04/2020	Source: EPA
Date Data Arrived at EDR: 09/15/2020	Telephone: (404) 562-9900
Date Made Active in Reports: 11/20/2020	Last EDR Contact: 12/01/2020
Number of Days to Update: 66	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018	Source: Department of Defense
Date Data Arrived at EDR: 07/02/2020	Telephone: 703-704-1564
Date Made Active in Reports: 09/17/2020	Last EDR Contact: 10/08/2020
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/25/2021
	Data Release Frequency: Varies

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 11/17/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 03/08/2021
	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: 06/27/2020 Date Data Arrived at EDR: 07/02/2020 Date Made Active in Reports: 09/28/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 202-564-2280 Last EDR Contact: 10/06/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2020 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 65 Source: EPA Telephone: 800-385-6164 Last EDR Contact: 11/13/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/14/2020		
Date Data Arrived at EDR: 07/15/2020		
Date Made Active in Reports: 07/22/2020		
Number of Days to Update: 7		

ASBESTOS: Asbestos Notification Listing Asbestos sites

> Date of Government Version: 08/26/2020 Date Data Arrived at EDR: 08/26/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 84

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

DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

> Date of Government Version: 07/14/2020 Date Data Arrived at EDR: 07/15/2020 Date Made Active in Reports: 07/22/2020 Number of Days to Update: 7

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Semi-Annually

Source: Department of Environmental Protection Telephone: 502-782-6780 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Varies

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 10/09/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: No Update Planned

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Semi-Annually

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

Date of Government Version: 07/23/2020 Date Data Arrived at EDR: 07/24/2020 Date Made Active in Reports: 10/12/2020 Number of Days to Update: 80

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 07/21/2020 Next Scheduled EDR Contact: 02/08/2021 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: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 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: 07/23/2020 Date Data Arrived at EDR: 07/24/2020 Date Made Active in Reports: 10/12/2020 Number of Days to Update: 80 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Varies

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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: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Varies	
NPDES: Permitted Facility Listing A listing of permitted wastewater facilities.		
Date of Government Version: 04/27/2020 Date Data Arrived at EDR: 04/29/2020 Date Made Active in Reports: 07/16/2020 Number of Days to Update: 78	Source: Department of Environmental Protection Telephone: 502-564-3410 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Semi-Annually	
UIC: UIC Information A listing of wells identified as underground inj	ection wells, in the Kentucky Oil & Gas Wells data base.	
Date of Government Version: 07/01/2020 Date Data Arrived at EDR: 07/14/2020 Date Made Active in Reports: 09/30/2020 Number of Days to Update: 78	Source: Kentucky Geological Survey Telephone: 859-323-0544 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Quarterly	
PCS: Permit Compliance System PCS is a computerized management information system that contains data on National Pollutant Discharge Elim 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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually	
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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually	
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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Varies	
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: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies	

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 Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/15/2014 Number of Days to Update: 198 Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

	Date of Government Version: 08/10/2020 Date Data Arrived at EDR: 10/20/2020 Date Made Active in Reports: 11/02/2020 Number of Days to Update: 13	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 11/09/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: No Update Planned
NJ I	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019 Number of Days to Update: 36	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 10/09/2020 Next Scheduled EDR Contact: 01/18/2021 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 facility.		
	Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 04/29/2020 Date Made Active in Reports: 07/10/2020 Number of Days to Update: 72	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 10/30/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Quarterly
PA	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019 Number of Days to Update: 53	Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Annually
RIN	ANIFEST: Manifest information	

RI MANIFEST: Manifest information Hazardous waste manifest information

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY

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: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 76

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 12/03/2020 Next Scheduled EDR Contact: 03/22/2021 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

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MEADE CO. BIG SPRING ROAD VINE GROVE, KY 40175

TARGET PROPERTY COORDINATES

Latitude (North):	37.834656 - 37° 50' 4.76"
Longitude (West):	86.145761 - 86° 8' 44.74''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	575170.6
UTM Y (Meters):	4187608.5
Elevation:	740 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5940275 BIG SPRING, KY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

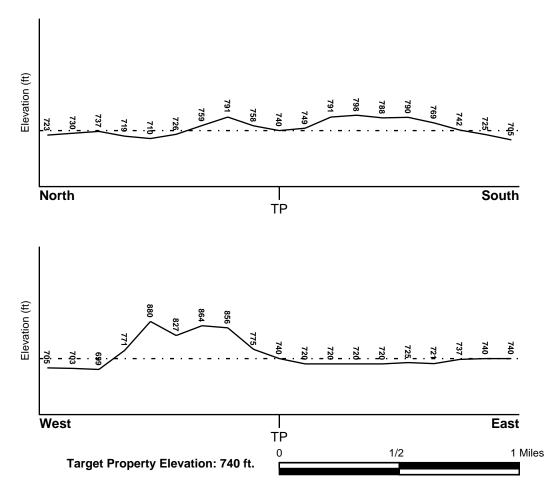
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type	
21027C0275C	FEMA FIRM Flood data	
Additional Panels in search area:	FEMA Source Type	
Not Reported		
NATIONAL WETLAND INVENTORY		

	NWI Electronic
NWI Quad at Target Property	Data Coverage
BIG SPRING	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION

FROM TP

GENERAL DIRECTION GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

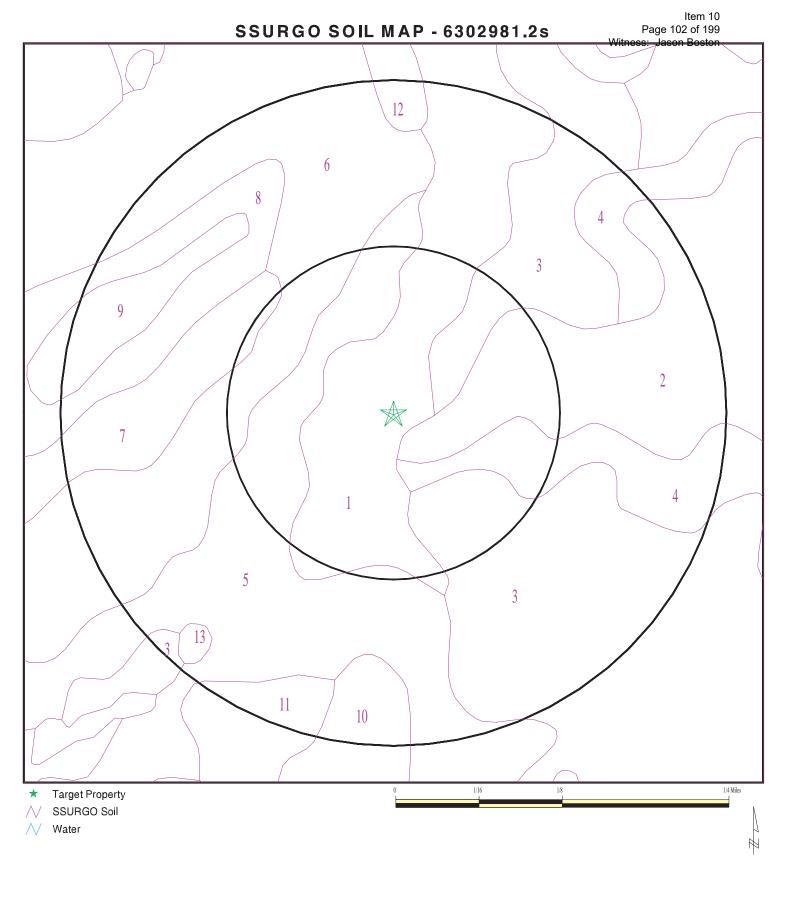
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Paleozoic	Category:	Stratified Sequence
System:	Mississippian		
Series: Meramecian Series			
Code:	M2 (decoded above as Era, System & Se	eries)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



Vine Grove KY 40175	CLIENT: Linebach Funkhouser Inc. CONTACT: Jason Boston INQUIRY #: 6302981.2s DATE: December 15, 2020 4:45 pm
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DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1	
Soil Component Name:	Crider
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information								
	Boundary			Classification		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
2	0 inches 7 inches	7 inches 31 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. Silt-Clay	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay. FINE-GRAINED	Max: 14.11 Min: 4.23 Max: 14.11	Max: 6 Min: 4.5 Max: 6 Min:		
				Materials (more than 35 pct. passing No. 200), Silty Soils.	SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Min: 4.23	4.5		
3	31 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5		

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Soil Component Name:	Nolin
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 137 inches

	Soil Layer Information								
	Boundary			Classification		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42.34 Min: 4.23	Max: 8.4 Min: 5.1		
2	7 inches	61 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42.34 Min: 4.23	Max: 8.4 Min: 5.1		
3	61 inches	72 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42.34 Min: 4.23	Max: 8.4 Min: 5.1		

Soil Map ID: 3	
Soil Component Name:	Crider
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information								
	Bou	Indary		Classi	fication	Saturated hydraulic	Soil Reaction (pH)		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5		
2	7 inches	31 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5		
3	31 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5		

Soil Map ID: 4	
Soil Component Name:	Baxter
Soil Surface Texture:	very gravelly silty clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information								
	Βοι	undary		Classi	fication	Saturated hydraulic	Soil Reaction (pH)		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
1	0 inches	5 inches	very gravelly silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5		
2	5 inches	29 inches	gravelly clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5		
3	29 inches	89 inches	gravelly clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5		

Soil Map ID: 5	
Soil Component Name:	Fredonia
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 76 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information								
	Βοι	indary		Classi	fication	Saturated hydraulic	Soil Reaction (pH)		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:		
2	3 inches	29 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:		
3	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:		

Soil Map ID: 6	
Soil Component Name:	Caneyville
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 61 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information										
	Βοι	Indary		Classi	fication	Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)			
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:			
2	5 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:			
3	9 inches	24 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:			
4	24 inches	27 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:			

Soil Map ID: 7	
Soil Component Name:	Rock outcrop
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 48 inches
Depth to Watertable Min:	> 0 inches
No Layer Information available.	

Soil Component Name:	Rosine
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
2	7 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
3	20 inches	53 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
4	53 inches	63 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
5	63 inches	68 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	

Soil Component Name:	Zanesville
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 150 inches
Depth to Watertable Min:	> 51 inches

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
2	9 inches	22 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
3	22 inches	55 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
4	55 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	
5	59 inches	62 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:	

Soil Map ID: 10

Soil Component Name:	Crider
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 5.1
2	5 inches	25 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 5.1
3	25 inches	74 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 5.1

Soil Map ID: 11	
Soil Component Name:	Fredonia
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 68 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information							
Boundary				Classification	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	3 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	
2	3 inches	26 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	
3	26 inches	31 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	

Soil Map ID: 12	
Soil Component Name:	Crider
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information							
Boundary			Classification		Saturated hydraulic			
Layer	Upper Lower		Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5	
2	7 inches	31 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5	
3	31 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5	

Soil Map ID: 13	
Soil Component Name:	Water
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class: Hydric Status: Unknown	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches
No Layer Information available.	

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000384387	1/4 - 1/2 Mile NW
2	USGS40000384396	1/4 - 1/2 Mile NNW
5	USGS40000384409	1/2 - 1 Mile NE
A7	USGS40000384351	1/2 - 1 Mile East
10	USGS40000384393	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	KY6000000030662	1/2 - 1 Mile WNW
4	KY600000057665	1/2 - 1 Mile East
A6	KY600000036327	1/2 - 1 Mile East
8	KY600000017160	1/2 - 1 Mile NE
A9	KY600000020133	1/2 - 1 Mile East
11	KY600000025326	1/2 - 1 Mile NNW
12	KY600000057667	1/2 - 1 Mile East
13	KY600000018277	1/2 - 1 Mile NW
14	KY600000031673	1/2 - 1 Mile NW
15	KY600000041266	1/2 - 1 Mile SE
16	KY600000017403	1/2 - 1 Mile ENE

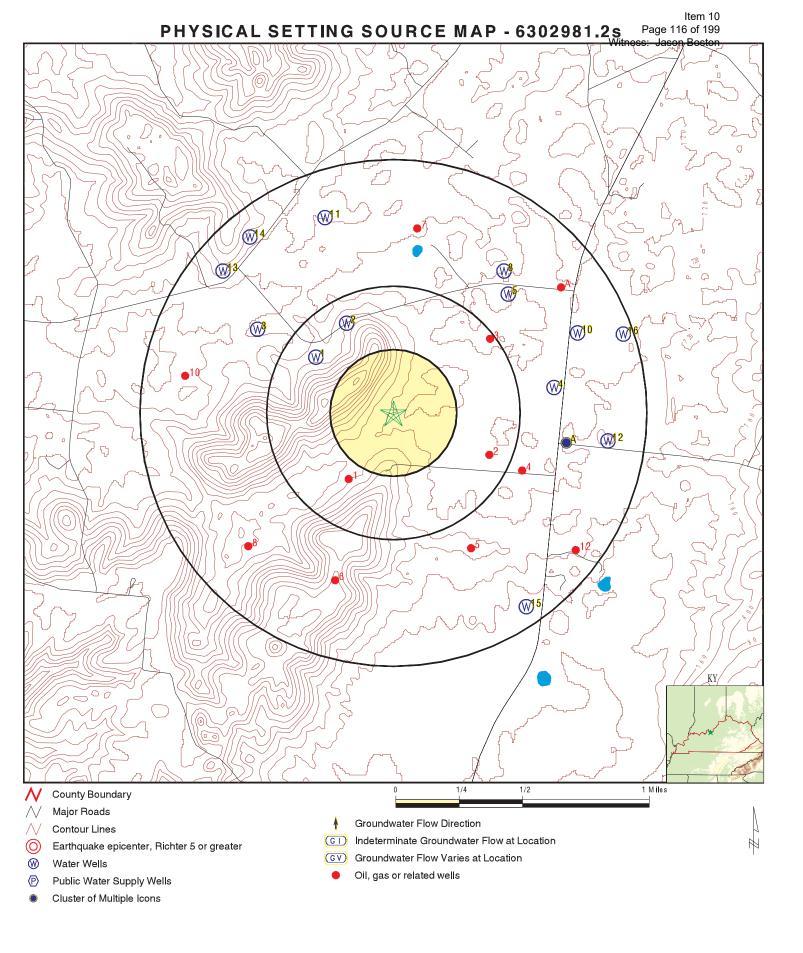
OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	KYOG12000102977	1/4 - 1/2 Mile SW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	KYOG12000104774	1/4 - 1/2 Mile ESE
3	KYOG12000104811	1/4 - 1/2 Mile NE
4	KYOG12000104708	1/2 - 1 Mile ESE
5	KYOG12000104804	1/2 - 1 Mile SSE
6	KYOG12000102976	1/2 - 1 Mile SSW
7	KYOG12000104807	1/2 - 1 Mile North
8	KYOG12000104822	1/2 - 1 Mile SW
A9	KYOG12000102994	1/2 - 1 Mile NE
10	KYOG12000105643	1/2 - 1 Mile West
A11	KYOG12000102978	1/2 - 1 Mile NE
12	KYOG12000102927	1/2 - 1 Mile SE



Distance Elevation			[Database	EDR ID Number
IW /4 - 1/2 Mile ligher			F	ED USGS	USGS40000384387
Organization ID:	USGS-KY		Organization Name:	USG	S Kentucky Water Science Cente
Monitor Location:	F15C0021		Туре:	Well	
Description:	Not Reported		HUC:	0514	0104
Drainage Area:	Not Reported		Drainage Area Units:		Reported
Contrib Drainage Area:	Not Reported		Contrib Drainage Area Unt		Reported
Aquifer:	Not Reported		Formation Type:		Reported
Aquifer Type:	Not Reported		Construction Date:	1955	0201
Well Depth:	172		Well Depth Units:	ft	
Well Hole Depth:	172		Well Hole Depth Units:	ft	
Ground water levels,Num	ber of Measurements:	1	Level reading date:	1955	-
Feet below surface:	112.00		Feet to sea level:	Not F	Reported
Note:	Not Reported				
2 NNW I/4 - 1/2 Mile Higher			F	ED USGS	USGS40000384396
Organization ID:	USGS-KY		Organization Name:		S Kentucky Water Science Cent
Monitor Location:	F15C0001		Туре:	Well	
Description:	Not Reported		HUC:	0514	
Drainage Area:	Not Reported		Drainage Area Units: Contrib Drainage Area Uni	NOT F	Reported
Contrib Drainage Area: Aquifer:	Not Reported Not Reported		Formation Type:		Reported Reported
Aquifer Type:	Not Reported		Construction Date:	1975	
Well Depth:	181		Well Depth Units:	ft	0010
Well Hole Depth:	181		Well Hole Depth Units:	ft	
Ground water levels,Num	ber of Measurements:	1	Level reading date:	1975	-05-13
Feet below surface:	90.10		Feet to sea level:	Not F	Reported
Note:	Not Reported				
VNW /2 - 1 Mile			ŀ	(Y WELLS	KY600000030662
ower					
Fid:	30661		Akgwa:	52258	
Altid:	Not Reported		Latdecimal:	37.8394444	14
	-86.15555556		County:	Meade	
Longdecima:			Ubvelograp:	Mississippia	an Plateau
Longdecima: Quadname:	Big Spring		Physiograp:		
Longdecima:	Big Spring W Domestic - Single Household		Surfaceele: Enddate:	710 01-JUL-99	

Map ID Direction				
Distance Elevation			Database	EDR ID Number
4 East 1/2 - 1 Mile Lower			KY WELLS	KY600000057665
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	57664 Not Reported -86.134167 Big Spring W Domestic - Single Household KY6000000057665	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	60002908 37.836111 Meade Not Reporte 0 01-JAN-44	ed
5 NE 1/2 - 1 Mile Lower			FED USGS	USGS40000384409
Organization ID: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	USGS-KY F15C0039 Not Reported Not Reported Not Reported Not Reported 130 130	Organization Name: Type: HUC: Drainage Area Units: Contrib Drainage Area U Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	Well 0514 Not F nts: Not F	Reported Reported Reported
A6 East 1/2 - 1 Mile Lower			KY WELLS	KY600000036327
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	36326 Not Reported -86.13375 Big Spring W Domestic - Single Household KY6000000036327	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	61737 37.832944 Meade Mississippia 896 13-OCT-05	
A7 East 1/2 - 1 Mile Lower			FED USGS	USGS40000384351
Organization ID: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	USGS-KY F15C0036 Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported	Organization Name: Type: HUC: Drainage Area Units: Contrib Drainage Area U Formation Type: Construction Date: Well Depth Units:	Well 0514 Not F nts: Not F Not F Not F Not F	S Kentucky Water Science Center 0104 Reported Reported Reported Reported Reported Reported

Not Reported

Well Hole Depth Units:

Not Reported

Well Hole Depth:

Ground water levels,Num Feet below surface: Note:	ber of Measurements: 1 51.90 Not Reported	Level reading date: Feet to sea level:	1975-0 Not Re	
3 NE I/2 - 1 Mile _ower		к	Y WELLS	KY600000017160
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	17159 Not Reported -86.13777778 Big Spring W Domestic - Single Household KY6000000017160	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	28560 37.84277778 Meade Mississippian 725 25-SEP-92	
A9 East I/2 - 1 Mile Higher		к	Y WELLS	KY600000020133
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	20132 Not Reported -86.1325 Big Spring W Agriculture - Livestock Watering KY6000000020133	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	33614 37.83305556 Meade Mississippian 740 13-APR-94	
I0 ENE I/2 - 1 Mile ∟ower		F	ED USGS	USGS40000384393
Organization ID: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	USGS-KY F15C0002 Not Reported Not Reported Not Reported Not Reported 154	Organization Name: Type: HUC: Drainage Area Units: Contrib Drainage Area Unt Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	Well 051401 Not Re	ported ported ported
Ground water levels,Num Feet below surface: Note:	ber of Measurements: 1 25.00 Not Reported	Level reading date: Feet to sea level:	1975-0 Not Re	

11 NNW 1/2 - 1 Mile Higher

> Fid: Altid: Longdecima:

25325 Not Reported -86.15069444 Akgwa: Latdecimal: County: 45181 37.84583333 Breckinridge

KY600000025326

KY WELLS

Quadname: Type: Usage: Site id:	Big Spring W Domestic - Single Household KY600000025326	Physiograp: Surfaceele: Enddate:	Mississippiar 740 06-NOV-97	n Plateau
12 East 1/2 - 1 Mile Higher			KY WELLS	KY600000057667
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	57666 Not Reported -86.130278 Big Spring W Domestic - Single Household KY6000000057667	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	60002910 37.833056 Meade Not Reported 0 01-JAN-30	3
13 NW 1/2 - 1 Mile Higher			KY WELLS	KY600000018277
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	18276 Not Reported -86.15805556 Big Spring W Domestic - Single Household KY6000000018277	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	30274 37.84277778 Meade Mississippiar 720 20-NOV-92	
14 NW 1/2 - 1 Mile Higher			KY WELLS	KY600000031673
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	31672 Not Reported -86.15611111 Big Spring W Agriculture - Livestock Watering KY600000031673	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	53691 37.84472222 Meade Mississippiar 745 31-DEC-99	
15 SE 1/2 - 1 Mile Lower			KY WELLS	KY600000041266
Fid: Altid: Longdecima: Quadname: Type: Usage: Site id:	41265 Not Reported -86.136169 Big Spring W Domestic - Single Household KY6000000041266	Akgwa: Latdecimal: County: Physiograp: Surfaceele: Enddate:	30001806 37.823566 Meade Western Pen 0 Not Reported	

Map ID Direction Distance Elevation			Database	EDR ID Number
16 ENE 1/2 - 1 Mile Lower			KY WELLS	KY600000017403
Fid:	17402	Akgwa:	28869	
Altid:	Not Reported	Latdecimal:	37.8391666	67
Longdecima:	-86.12916667	County:	Meade	
Quadname:	Big Spring	Physiograp:	Mississippia	an Plateau
Type:	W	Surfaceele:	710	
Usage:	Domestic - Single Household	Enddate:	27-JUL-92	
Site id:	KY600000017403			

Map ID Direction Distance

Database EDR ID Number

KYOG12000102977

KYOG12000104774

OIL_GAS

OIL_GAS

1 ŚW 1/4 - 1/2 Mile

API #:

Plug Date:

URL:

16163001870000 KGS #: 116075 Well Elevation: 754 Original Farm/Lease Name: GOHL, HERMAN G & GOHL, JOHN G NORTHLAND OPERATING CO Original Well #: Original Operator: 4 Total Well Depth (ft): Formation: 1178 355BRPT 341NALB Init Open or Potential Flow: 45 MCFGPD Deepest Formation: Original API Classification: Extension (outpost) Well Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: 30-NOV-98 Not Reported Documentation on Plug: Not Reported Core Call #: Not Reported Cuttings Call #: 0 Log on File: Permit #: GR 89775 http://kgs.uky.edu/OG_images/0/0/1/1/6/R00116075/R00116075.pdf

2 ESE 1/4 - 1/2 Mile

API #: 16163002090000 KGS #: 121628 GOHL, JOHN Well Elevation: 730 Original Farm/Lease Name: Original Operator: QUEEN SAND OPERATING COMPANY Original Well #: 7 Total Well Depth (ft): 980 Formation: Deepest Formation: 341NALB 341NALB Init Open or Potential Flow: 43 MCFGPD Original API Classification: **Development Well** Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: Plug Date: Not Reported 13-JAN-01 Documentation on Plug: Not Reported Core Call #: Not Reported Cuttings Call #: 0 Log on File: BC Permit #: 91563 URL: http://kgs.uky.edu/OG_images/0/0/1/2/1/R00121628/R00121628.pdf

3 ŇE 1/4 - 1/2 Mile

KYOG12000104811 OIL_GAS

API #:	16163002180000	KGS #:	121665
Well Elevation:	714	Original Farm/Lease Name:	HAGER, JOE
Original Operator:	QUEEN SAND OPERATING COMPANY		
Original Well #:	1	Total Well Depth (ft):	955
Formation:	344SLBG	Deepest Formation:	341NALB
Init Open or Potential Flow:	70 MCFGPD	Original API Classification:	Development Well
Bore Type:	Conventional Vertical	How Completed:	Gas producer
Completion Date:	07-MAR-01	Plug Date:	Not Reported
Documentation on Plug:	Not Reported	Core Call #:	Not Reported
Cuttings Call #:	0	Log on File:	CCL
Permit #:	91590	-	
URL:	http://kgs.uky.edu/OG_images	s/0/0/1/2/1/R00121665/R00121665.pdf	

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

Database EDR ID Number

KYOG12000104804

KYOG12000102976

OIL_GAS

OIL_GAS

4 ESE 1/2 - 1 Mile

OIL_GAS KYOG12000104708

API #:	16163002230000	KGS #:	121562
Well Elevation:	729	Original Farm/Lease Name:	GOHL, JOHN
Original Operator:	QUEEN SAND OPERATING COMPA	NY	
Original Well #:	1 SWD	Total Well Depth (ft):	1330
Formation:	361GRLK	Deepest Formation:	355LAUR
Init Open or Potential Flow:	Not Reported		
Original API Classification:	Service Well, EPA Class II Injection		
Bore Type:	Conventional Vertical	How Completed:	Salt water disposal
Completion Date:	13-NOV-00	Plug Date:	Not Reported
Documentation on Plug:	Not Reported	Core Call #:	Not Reported
Cuttings Call #:	0	Log on File:	BC
Permit #:	91615		
URL:	http://kgs.uky.edu/OG_images/0/0/1/2	/1/R00121562/R00121562.pdf	

5 SSE 1/2 - 1 Mile

API #: 16163002140000 KGS #: 121658 Well Elevation: 772 Original Farm/Lease Name: GOHL, JOHN Original Operator: QUEEN SAND OPERATING COMPANY Original Well #: Total Well Depth (ft): 1035 8 Formation: 341NALB **Deepest Formation:** 341NALB Init Open or Potential Flow: Not Reported Original API Classification: **Development Well** Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: 02-MAR-01 Plug Date: Not Reported Documentation on Plug: Not Reported Core Call #: Not Reported Cuttings Call #: 0 Log on File: CCL Permit #: 91591 URL: http://kgs.uky.edu/OG_images/0/0/1/2/1/R00121658/R00121658.pdf

šsw 1/2 - 1 Mile

API #: 16163001850000 KGS #: 116074 Original Farm/Lease Name: Well Elevation: 904 GOHL, HERMAN & GOHL, JOHN G NORTHLAND OPERATING CO Original Operator: Original Well #: 3 1307 Formation: 355BRPT Total Well Depth (ft): Deepest Formation: Init Open or Potential Flow: 40 MCFGPD 341NALB Original API Classification: **Development Well** Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: 30-AUG-98 Plug Date: Not Reported Documentation on Plug: Not Reported Core Call #: Cuttings Call #: Not Reported 0 Log on File: 89774 DIL Permit #: URL: http://kgs.uky.edu/OG_images/0/0/1/1/6/R00116074/R00116074.pdf

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

Database EDR ID Number

7 North 1/2 - 1 Mile

OIL_GAS KYOG12000104807

API #:	16163002170000	KGS #:	121661			
Well Elevation:	728	Original Farm/Lease Name:	BALLMAN, BERTHA			
Original Operator:	QUEEN SAND OPERATING	COMPANY				
Original Well #:	2	Total Well Depth (ft):	1000			
Formation:	344SLBG	Deepest Formation:	341NALB			
Init Open or Potential Flow:	42 MCFGPD	Original API Classification:	Development Well			
Bore Type:	Conventional Vertical	How Completed:	Gas producer			
Completion Date:	05-MAR-01	Plug Date:	Not Reported			
Documentation on Plug:	Not Reported	Core Call #:	Not Reported			
Cuttings Call #:	0	Log on File:	CCL			
Permit #:	91597	C C				
URL:	http://kgs.uky.edu/OG_images	http://kgs.uky.edu/OG_images/0/0/1/2/1/R00121661/R00121661.pdf				

8 SW 1/2 - 1 Mile

API #: Well Elevation: Original Operator: Original Well #:

Formation: Init Open or Potential Flow: Bore Type: Completion Date: Documentation on Plug: Cuttings Call #: Permit #: URL:

KYOG12000104822 OIL_GAS

16163002240000 KGS #: 121677 GOHL, JOHN 720 Original Farm/Lease Name: QUEEN SAND OPERATING COMPANY 5 Total Well Depth (ft): 1030 000 Deepest Formation: 341NALB Not Reported Original API Classification: **Development Well** Conventional Vertical How Completed: Gas producer 07-JAN-03 Plug Date: Not Reported Not Reported Core Call #: Not Reported Not Reported 0 Log on File: 91638 http://kgs.uky.edu/OG_images/0/0/1/2/1/R00121677/R00121677.pdf

A9 NE 1/2

E 2 - 1 Mile		OIL	_GAS	KYOG12000102994
API #:	16163001950000	KGS #:	116	091
Well Elevation:	721	Original Farm/Lease Name:	BAL	LMAN, BERTHA M
Original Operator:	NORTHLAND OPERATING CO	Original Well #:	1	
Total Well Depth (ft):	1078	Formation:	3511	BILY
Deepest Formation:	341NALB	Init Open or Potential Flow:	27 N	//CFGPD
Original API Classification:	Extension (outpost) Well	Bore Type:	Con	ventional Vertical
How Completed:	Gas producer	Completion Date:	03-E	DEC-98
Plug Date:	Not Reported	Documentation on Plug:	Not	Reported
Core Call #:	Not Reported	Cuttings Call #:	0	
Log on File:	DIL	Permit #:	898	53
URL:	http://kgs.uky.edu/OG_images/0/0/	1/1/6/R00116091/R00116091.pdf		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

10 West

1/2 - 1 Mile

Database EDR ID Number

OIL_GAS

KYOG12000105643

API #: 16163002630000 KGS #: 123201 Well Elevation: 690 Original Farm/Lease Name: BENNETT, MARION W DEVX OPERATING COMPANY Original Well #: Original Operator: Total Well Depth (ft): Formation: 1002 344JFVL Init Open or Potential Flow: 8 MCFGPD **Deepest Formation:** 341NALB Original API Classification: **Development Well** Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: 01-NOV-01 Plug Date: Not Reported Documentation on Plug: Not Reported Core Call #: Not Reported Cuttings Call #: 0 Log on File: Not Reported Permit #: 92461 URL: http://kgs.uky.edu/OG_images/0/0/1/2/3/R00123201/R00123201.pdf

A11 NE

1/2 - 1 Mile

API #: 16163001900000 KGS #: 116076 Original Farm/Lease Name: Well Elevation: 720 BALLMAN, BERTHA M Original Well #: Original Operator: Northland Operating Co Total Well Depth (ft): 0 Formation: 000 Init Open or Potential Flow: Deepest Formation: 000 Not Reported Original API Classification: Unclassified Bore Type: **Conventional Vertical** How Completed: Terminated (permit expired or cancelled) 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 #: 89776 URL: http://kgs.uky.edu/OG_images/0/0/1/1/6/R00116076/R00116076.pdf

12 SE 1/2 - 1 Mile

API #: 16163001910000 KGS #: 116026 Well Elevation: 743 Original Farm/Lease Name: HAMILTON, ROBERT F Original Operator: NORTHLAND OPERATING CO Original Well #: 355BRPT Total Well Depth (ft): 1130 Formation: Init Open or Potential Flow: **Deepest Formation:** 341NALB 0 MCFGPD Original API Classification: Extension (outpost) Well Bore Type: **Conventional Vertical** How Completed: Gas producer Completion Date: 31-OCT-98 Plug Date: Not Reported Documentation on Plug: Not Reported Core Call #: Not Reported Cuttings Call #: 0 Log on File: Permit #: 89795 DIL http://kgs.uky.edu/OG_images/0/0/1/1/6/R00116026/R00116026.pdf URL:

OIL_GAS KYOG12000102978

KYOG12000102927 OIL_GAS

GEOCHECK[®] - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: KY Radon

Radon Test Results

Zip	Test Date	Test Result
40175 40175 40175 40175 40175	4/15/2005 10/1/2002 11/11/2002 3/10/2003 3/10/2003	6.80 16.30 20.40 6.70 6.70

Federal EPA Radon Zone for MEADE 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.

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.950 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS) The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

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 RECORDS

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.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

RADON

State Database: KY Radon Source: Department of Public Health Telephone: 502-564-4856 Radon Test Results

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Meade County Project

Meade County Project Vine Grove, KY 40175

Inquiry Number: 6587371.5s July 22, 2021

EDR Area / Corridor Report



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

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (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

MEADE COUNTY PROJECT VINE GROVE, KY 40175

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 Identifcations 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

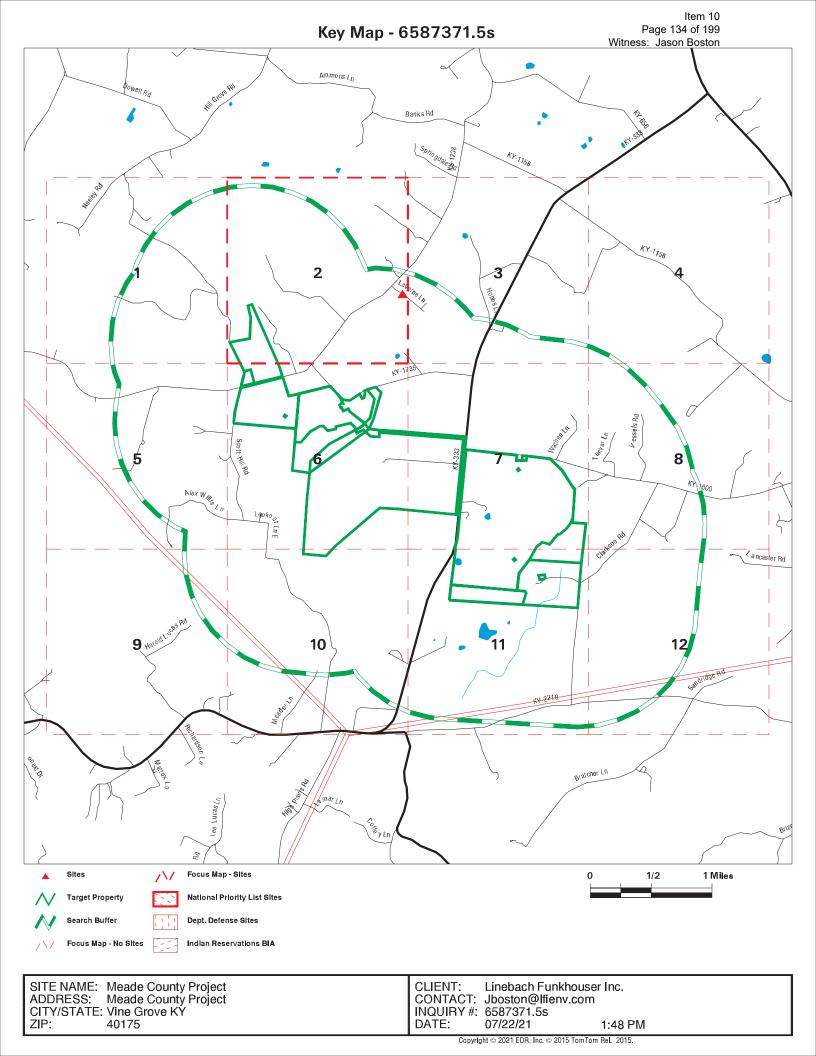
A review of the SHWS list, as provided by EDR, and dated 02/09/2021 has revealed that there is 1 SHWS site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
RUSSELL PROPERTY Facility Id: 120761	155 LAVERNE LANE	NNE 1/2 - 1 (0.795 mi.)	1/2	30
Facility Status: Closed				

MAPPED SITES SUMMARY

Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID /				DIST (ft. & mi.)
FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIRECTION
1/2	RUSSELL PROPERTY	155 LAVERNE LANE	SHWS, CDL	4197 0.795 NNE



Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONME	NTAL RECORDS	3						
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS							
SHWS	1.000		0	0	0	1	NR	1
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank li	sts						
PSTEAF INDIAN LUST SB193	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
State and tribal register	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering control / engin		s						
ENG CONTROLS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntar	y cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	os						
		_						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites								
HIST LF SWRCY INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardous			0	0	0		INIT	0
Contaminated Sites								
US HIST CDL CDL US CDL PFAS	TP TP TP TP		NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency I	Release Repo	rts						
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR	0.250 1.000 1.000 0.500 TP		0 0 0 NR	0 0 0 NR	NR 0 0 0 NR	NR 0 0 NR NR	NR NR NR NR	0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP TP		NR	NR	NR	NR NR	NR	0
ICIS FTTS	TP		NR NR	NR NR	NR NR	NR	NR NR	0 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	ŏ
HIST FTTS	TP		NR	NR	NR	NR	NR	Ő
DOT OPS	TP		NR	NR	NR	NR	NR	Õ
CONSENT	1.000		0	0	0	0	NR	õ
INDIAN RESERV	1.000		0	0	Ō	Ō	NR	0
FUSRAP	1.000		0	0	Ō	Ō	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
ECHO	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
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
	0.500		0	0	0	NR	NR	0
DRYCLEANERS Financial Assurance	0.250 TP		0 NR		NR	NR NR	NR NR	0
LEAD	TP		NR	NR NR	NR NR	NR	NR	0 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 HISTORI	CAL 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		Ő	NR	NR	NR	NR	Ő
EDR RECOVERED GOVE	RNMENT ARCH	IIVES						
Exclusive Recovered G	ovt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0

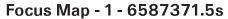
Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals		0	0	0	0	1	0	1

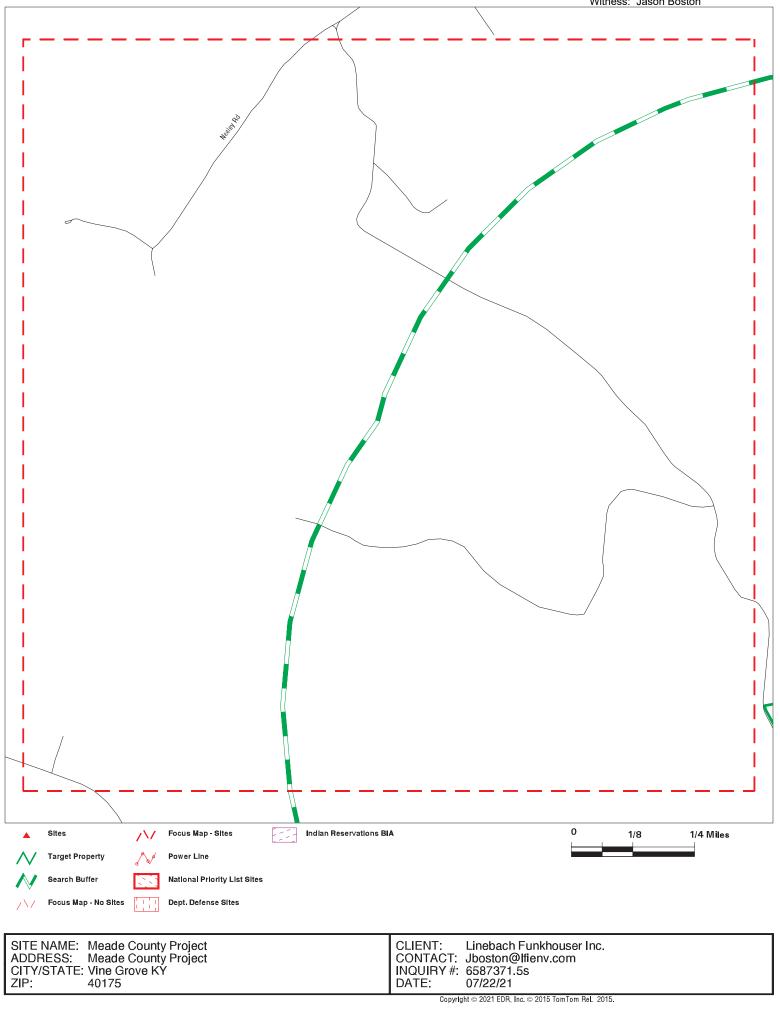
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database





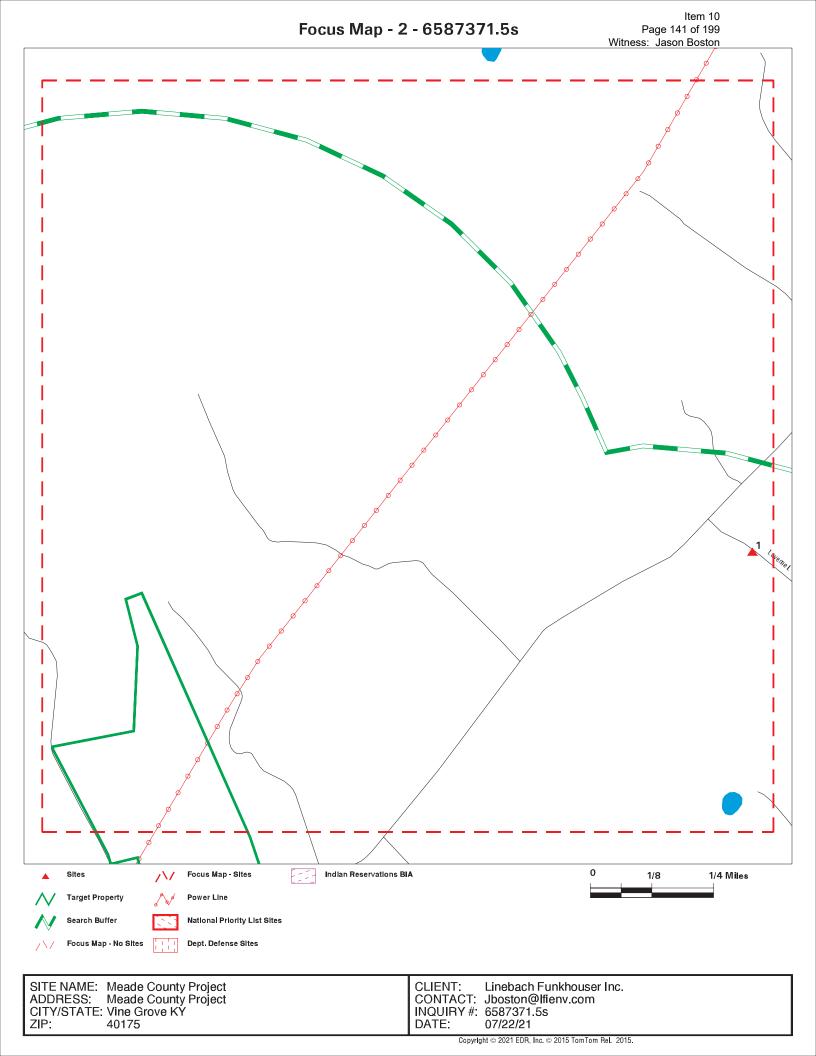
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

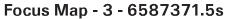
DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

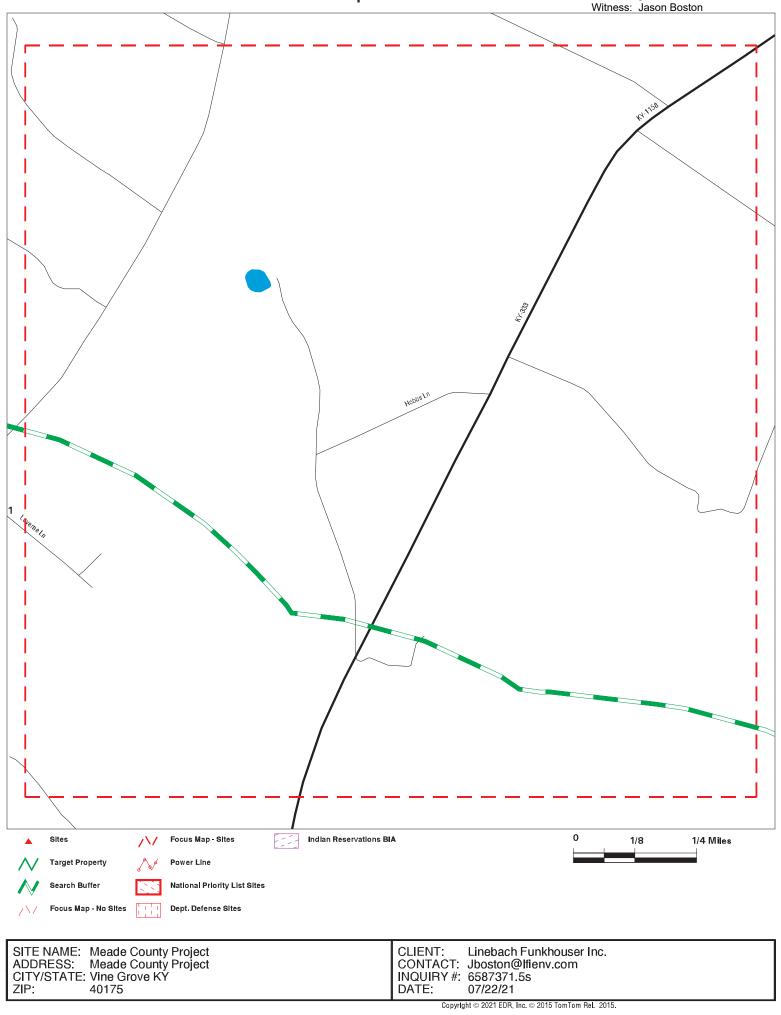


Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID /				DIST (ft. & mi.)
FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIRECTION
1/2	RUSSELL PROPERTY	155 LAVERNE LANE	SHWS, CDL	4197 0.795 NNE



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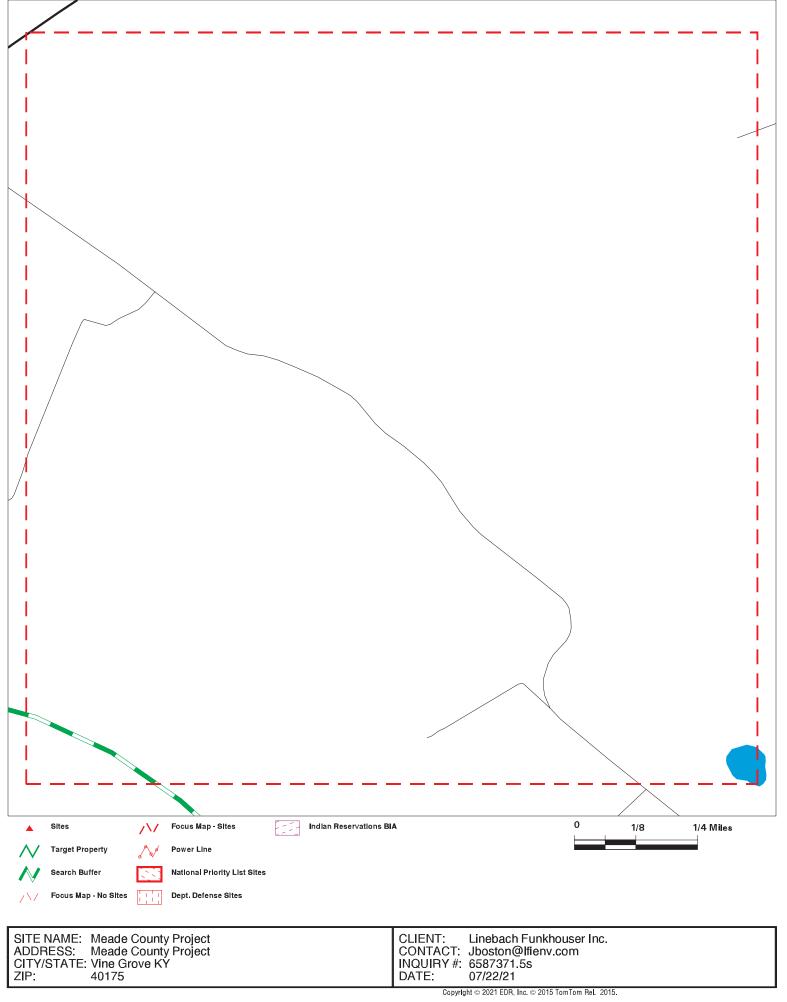
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION



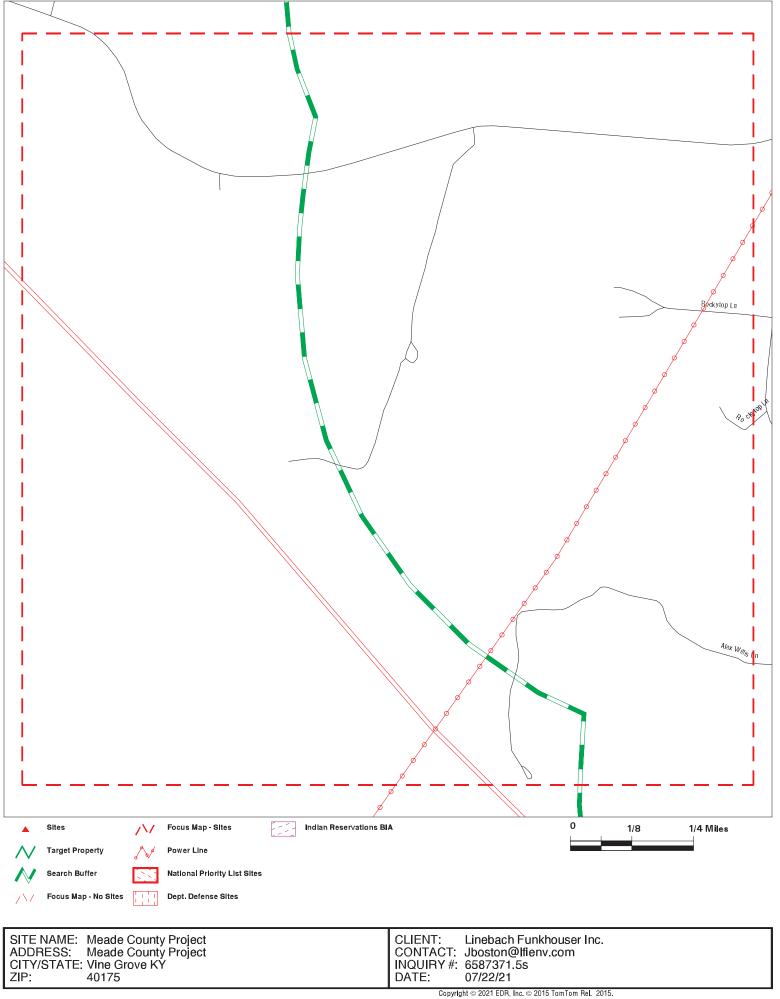
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION



Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

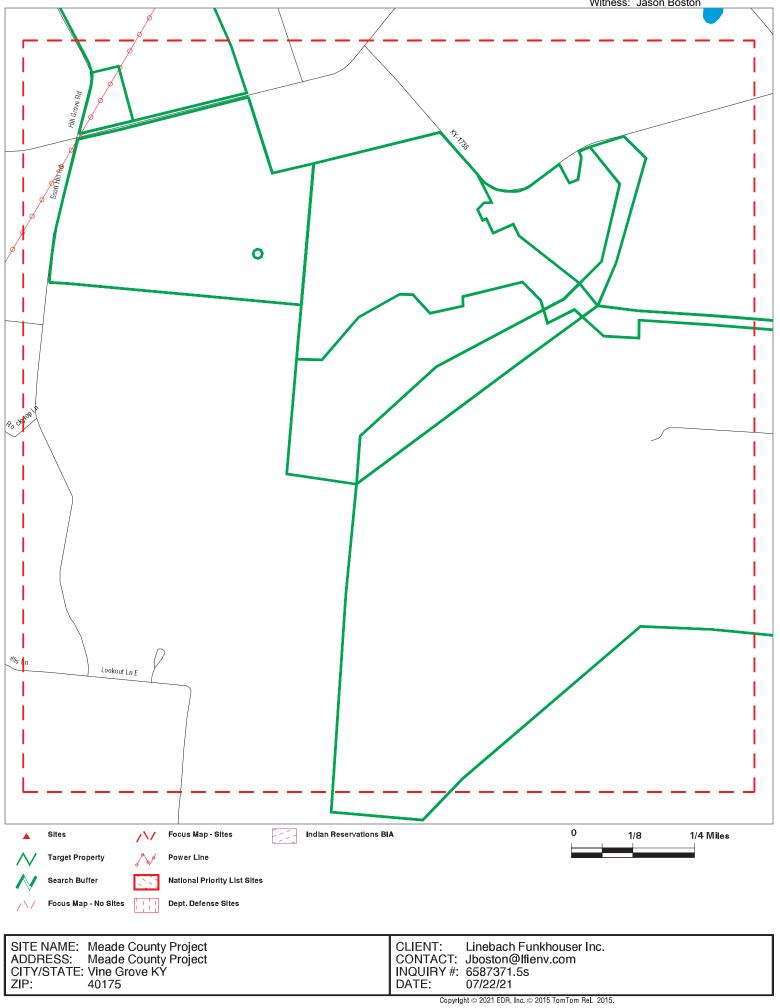
ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

Focus Map - 6 - 6587371.5s

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Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

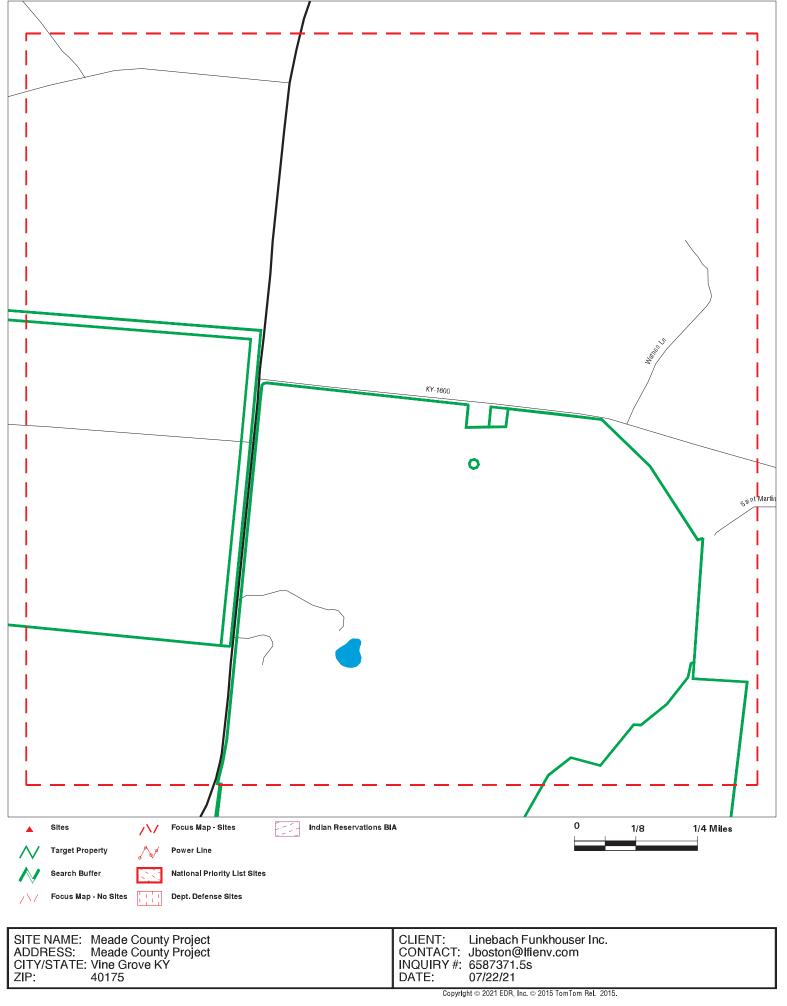
MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

Focus Map - 7 - 6587371.5s



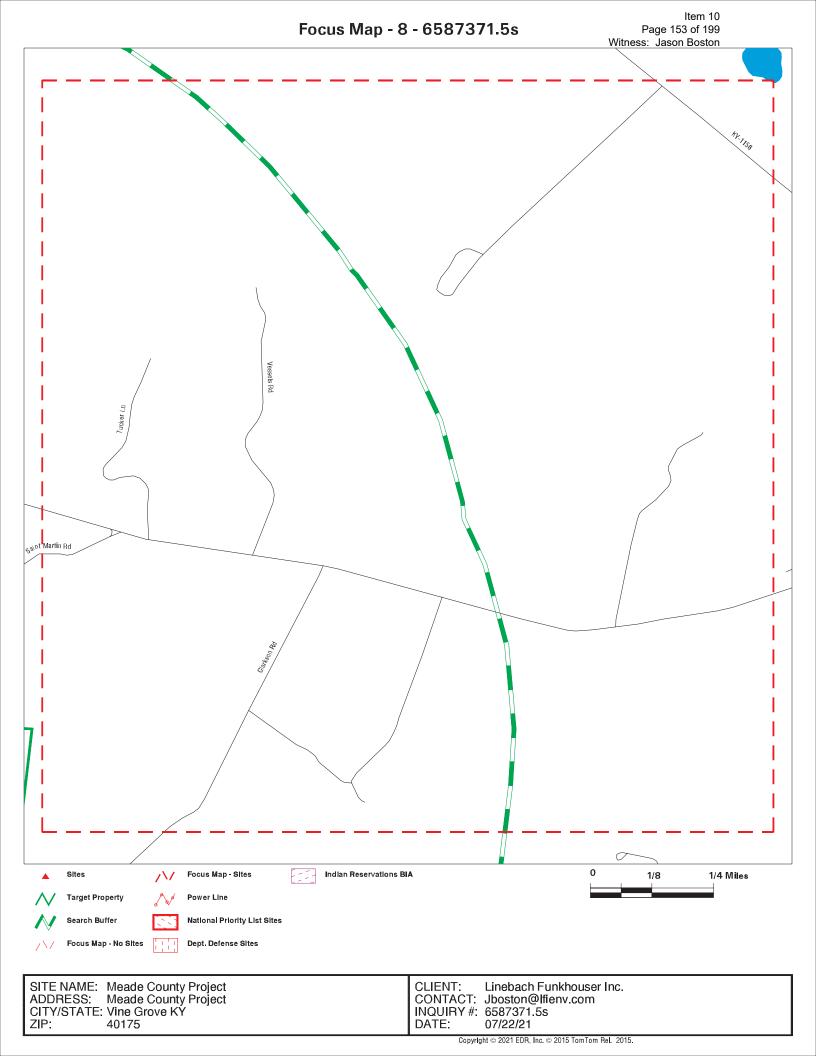
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION



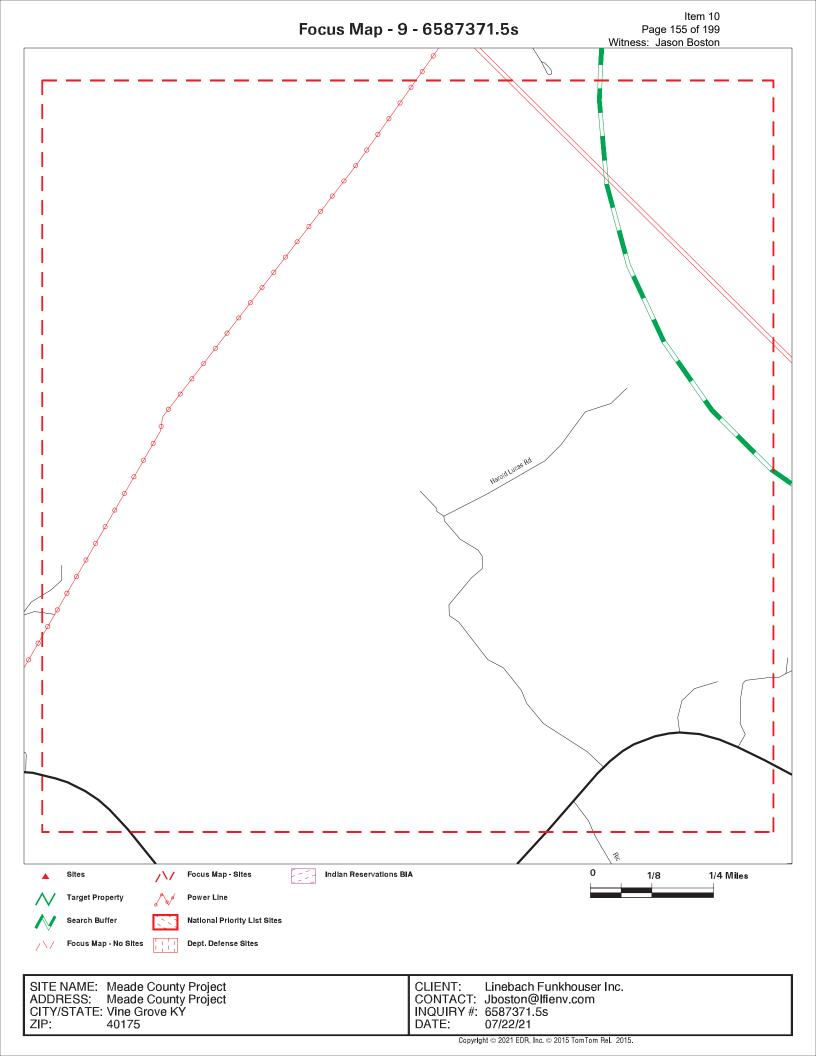
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION



Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

Focus Map	- 10 - 6587371.5s Page 157 of 199
	Witness: Jason Boston
│ ┍─ ─ ─ ─ ─ ─ ┤ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─	
J.	
Heeded -	
	KY-336 KY-927 KY-2210
	KY-336 KY-833 KY-534 KY-2210
Sites	itions BIA 0 1/8 1/4 Miles
Target Property	
Search Buffer National Priority List Sites	
→ → Focus Map - No Sites	
SITE NAME: Meade County Project ADDRESS: Meade County Project CITY/STATE: Vine Grove KY	CLIENT: Linebach Funkhouser Inc. CONTACT: Jboston@lfienv.com
CITY/STATE: Vine Grove KY	INQUIRY #: 6587371.5s
ZIP: 40175	DATE: 07/22/21 Copyright © 2021 EDR. Inc. © 2015 TomTom Rel. 2015.

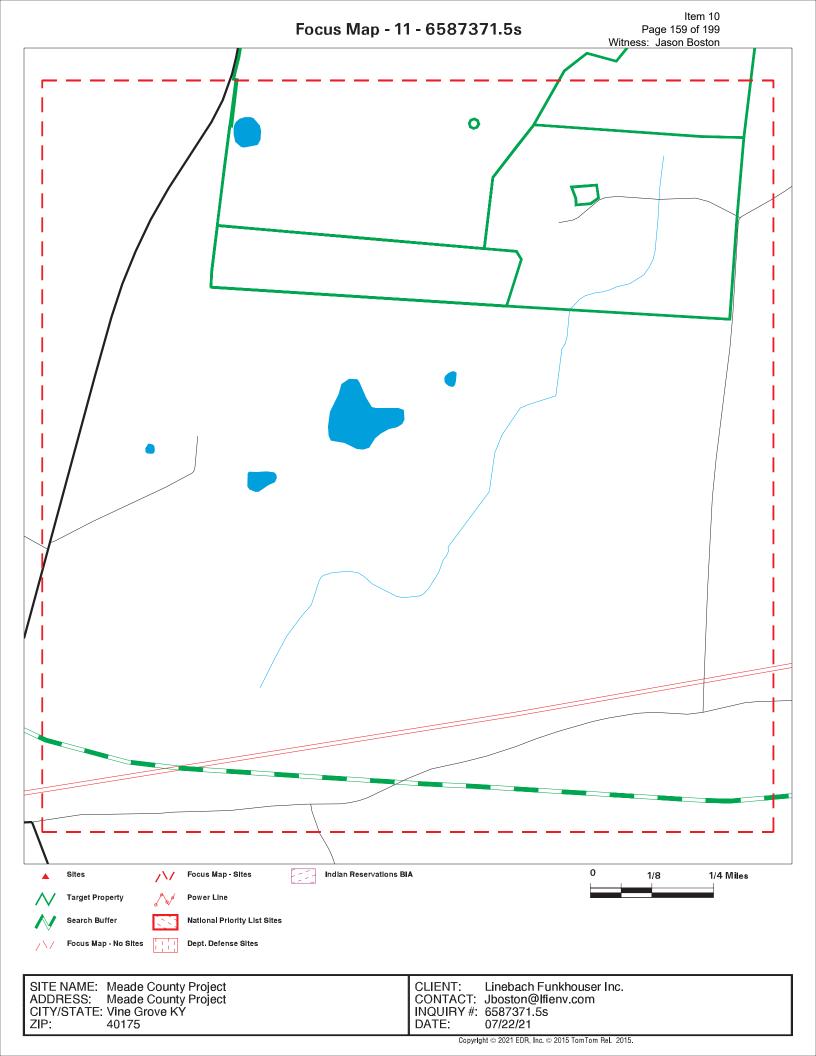
Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION



MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

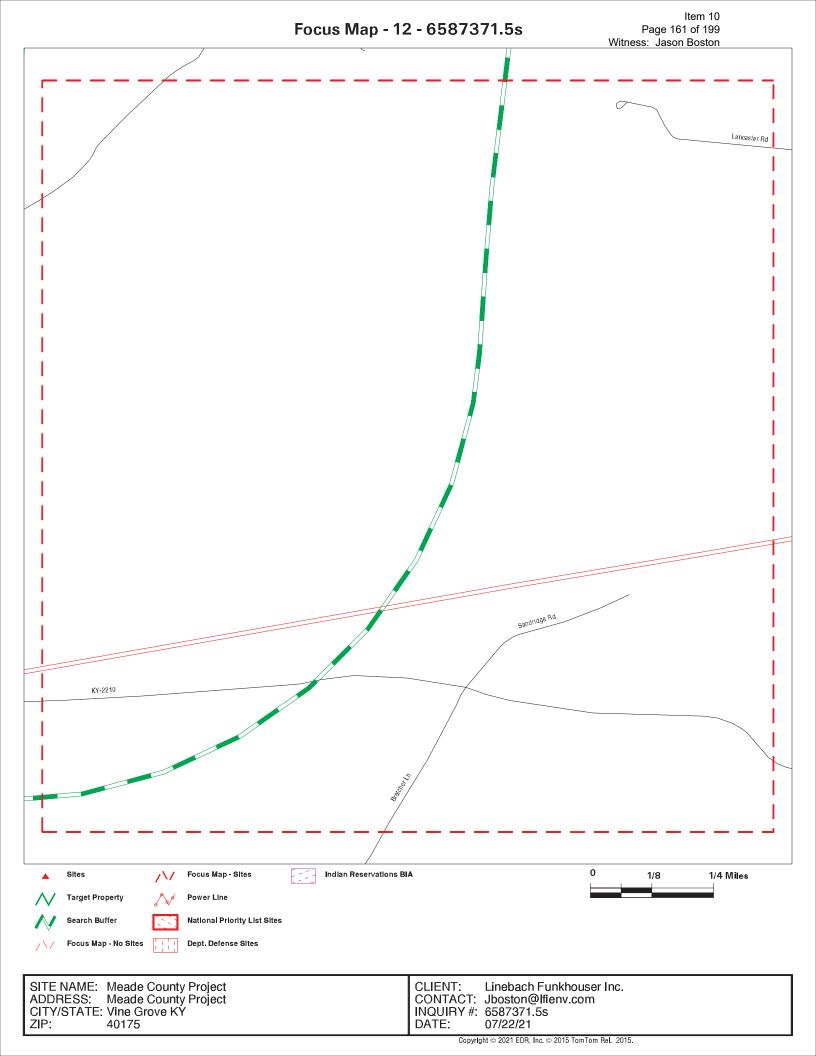
MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND



MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property: MEADE COUNTY PROJECT VINE GROVE, KY 40175

MAP ID / FOCUS MAP SITE NAME

ADDRESS

DATABASE ACRONYMS

DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Item 10 Page 163 of 199 Witness: Jason Boston

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1 NNE 1/2-1 0.795 mi. 4197 ft.	RUSSELL PROPERTY 155 LAVERNE LANE GUSTON, KY 40142		SHWS CDL	S114562893 N/A
Actual: 726 ft.	SHWS: Name:	RUSSELL PROPERTY		
Focus Map 2	Address: City,State,Zip: Facility Id: Status: Description: Closure Date: Longitude: Latitude: Subject Item County: Sub Item Longitude: Subject Item Address: Subject Item Address: Subject Item City,St,Zip: Regulatory Desc: Closure Option: Side SG: Acreage:	155 LAVERNE LANE GUSTON, KY 40142 120761 Closed 155 Laverne Lane Meth Lab (Closed 12/30/2013) 12/30/2013 -86.142761 37.850867 Meade -86.142760 37.850867 155 Laverne Ln Not reported Guston, KY 40214 State Superfund Option C Restored Meth Lab Not reported		
	CDL: Name: Address: Address 2: City,State,Zip: Site Status: Facility Group: Agency Interest Id Number: Designation: Description: Regulatory Description: Closure Option: Closure Date: Latitude: Longitude:	RUSSELL PROPERTY 155 LAVERNE LANE Not reported GUSTON, KY 40142 Closed AAZZ0001 120761 Meth Lab 155 Laverne Lane Meth Lab (Closed 12/30/2013) State Superfund Option C Restored 12/30/2013 37.85087 -86.14276		

Count: 1 records ORPHAN SUMMARY		ORPHAN SUMMARY	Witness		Page 164 of 199 ness: Jason Boston
City	EDR ID	Site Name	Site Address	Zip	Database(s)
MEADE COUNTY	S127321306	ARCH CHEMICALS INC (AI ID: 3114)	ON OLIN RD IN MEADE CO.		ASBESTOS

Item 10

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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: N/A Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/11/2021 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 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: N/A Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/11/2021 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.

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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: N/A Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/11/2021 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: 02/22/2021 Date Data Arrived at EDR: 03/30/2021 Date Made Active in Reports: 06/17/2021 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 06/23/2021 Next Scheduled EDR Contact: 10/11/2021 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 know 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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/25/2021 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/25/2021 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: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 Data Release Frequency: Quarterly

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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 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: 02/09/2021Source: Department of the NavyDate Data Arrived at EDR: 02/11/2021Telephone: 843-820-7326Date Made Active in Reports: 03/22/2021Last EDR Contact: 05/05/2021Number of Days to Update: 39Next Scheduled EDR Contact: 08/23/2021Data 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: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	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: 02/22/2021 Date Data Arrived at EDR: 02/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 85 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 05/21/2021 Next Scheduled EDR Contact: 09/06/2021 Data Release Frequency: Varies

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: 03/22/2021 Date Data Arrived at EDR: 03/24/2021 Date Made Active in Reports: 06/17/2021 Number of Days to Update: 85 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 06/17/2021 Next Scheduled EDR Contact: 10/04/2021 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: 02/09/2021	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/11/2021	Telephone: 502-564-6716
Date Made Active in Reports: 02/17/2021	Last EDR Contact: 05/19/2021
Number of Days to Update: 6	Next Scheduled EDR Contact: 09/06/2021
	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: 04/12/2021 Date Data Arrived at EDR: 04/30/2021 Date Made Active in Reports: 07/19/2021 Number of Days to Update: 80 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 04/30/2021 Next Scheduled EDR Contact: 08/09/2021 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: 03/01/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 07/01/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: Quarterly

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

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 06/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage T LUSTs on Indian land in Florida, Mississippi a	
Date of Government Version: 10/02/2020 Date Data Arrived at EDR: 12/18/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 84	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 06/17/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R1: Leaking Underground Storage T A listing of leaking underground storage tank I	
Date of Government Version: 10/01/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R8: Leaking Underground Storage T LUSTs on Indian land in Colorado, Montana, N	anks on Indian Land North Dakota, South Dakota, Utah and Wyoming.
Date of Government Version: 10/09/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R9: Leaking Underground Storage T LUSTs on Indian land in Arizona, California, N	
Date of Government Version: 10/01/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R7: Leaking Underground Storage T LUSTs on Indian land in Iowa, Kansas, and No	
Date of Government Version: 09/30/2020 Date Data Arrived at EDR: 12/22/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 80	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R5: Leaking Underground Storage T Leaking underground storage tanks located or	anks on Indian Land n Indian Land in Michigan, Minnesota and Wisconsin.
Date of Government Version: 10/07/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies
INDIAN LUST R10: Leaking Underground Storage LUSTs on Indian land in Alaska, Idaho, Orego	
Date of Government Version: 11/12/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies

Data Release Frequency: Varies

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: 01/29/2021 Date Data Arrived at EDR: 02/17/2021 Date Made Active in Reports: 03/22/2021 Number of Days to Update: 33 Source: FEMA Telephone: 202-646-5797 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/18/2021 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: 02/02/2021 Date Data Arrived at EDR: 02/24/2021 Date Made Active in Reports: 05/17/2021 Number of Days to Update: 82 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 05/25/2021 Next Scheduled EDR Contact: 09/06/2021 Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

Date of Government Version: 02/11/2021	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 02/11/2021	Telephone: 502-564-4010
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/08/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84 Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 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: 09/30/2020 Date Data Arrived at EDR: 12/22/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 80 Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian Iand in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).		
Date of Government Version: 10/01/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 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: 10/01/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies	
INDIAN UST R10: Underground Storage Tanks on The Indian Underground Storage Tank (UST) land in EPA Region 10 (Alaska, Idaho, Oregor	database provides information about underground storage tanks on Indian	
Date of Government Version: 11/12/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies	
	ndian Land database provides information about underground storage tanks on Indian rgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee	
Date of Government Version: 10/02/2020 Date Data Arrived at EDR: 12/18/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 84	Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 06/17/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: Varies	
INDIAN UST R5: Underground Storage Tanks on Ir The Indian Underground Storage Tank (UST) land in EPA Region 5 (Michigan, Minnesota ar	database provides information about underground storage tanks on Indian	
Date of Government Version: 10/07/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 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: 10/09/2020 Date Data Arrived at EDR: 12/16/2020 Date Made Active in Reports: 03/12/2021 Number of Days to Update: 86	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 06/11/2021 Next Scheduled EDR Contact: 11/01/2021 Data Poloaco Eroquency: Varies	

Data Release Frequency: Varies

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: 02/18/2021	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/25/2021	Telephone: 502-564-6716
Date Made Active in Reports: 05/17/2021	Last EDR Contact: 05/19/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 09/06/2021
	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: 02/23/2021	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/25/2021	Telephone: 502-564-6716
Date Made Active in Reports: 05/17/2021	Last EDR Contact: 05/19/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

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

Date of Government Version: 03/29/2021	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/31/2021	Telephone: 502-564-6716
Date Made Active in Reports: 06/22/2021	Last EDR Contact: 06/22/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: No Update Planned

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 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 06/15/2021 Next Scheduled EDR Contact: 10/04/2021 Data Release Frequency: No Update Planned

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: 04/09/2021 Date Data Arrived at EDR: 04/13/2021 Date Made Active in Reports: 06/30/2021 Number of Days to Update: 78

Source: Division of Compliance Assistance Telephone: 502-564-0323 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 10/25/2021 Data Release Frequency: Varies

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: 03/15/2021 Date Data Arrived at EDR: 03/16/2021 Date Made Active in Reports: 06/10/2021 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 06/10/2021 Next Scheduled EDR Contact: 09/27/2021 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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

SWRCY: Recycling Facilities

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

Date of Government Version: 09/04/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/14/2020	Telephone: 502-564-6716
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 07/16/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Varies

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: 07/20/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: No Update Planned

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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: 07/13/2021
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/01/2021
	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: 04/01/2014Source: Department of Health & Human Serivces, Indian Health ServiceDate Data Arrived at EDR: 08/06/2014Telephone: 301-443-1452Date Made Active in Reports: 01/29/2015Last EDR Contact: 07/20/2021Number of Days to Update: 176Next Scheduled EDR Contact: 11/08/2021Data 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: 12/07/2020 Date Data Arrived at EDR: 12/09/2020 Date Made Active in Reports: 03/02/2021 Number of Days to Update: 83	Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 05/22/2021 Next Scheduled EDR Contact: 09/06/2021 Data Release Frequency: No Update Planned
CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.	
Date of Government Version: 02/23/2021 Date Data Arrived at EDR: 02/25/2021 Date Made Active in Reports: 05/17/2021 Number of Days to Update: 81	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/19/2021 Next Scheduled EDR Contact: 09/06/2021 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: 12/07/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/09/2020	Telephone: 202-307-1000
Date Made Active in Reports: 03/02/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Quarterly

PFAS: PFAS Detections Site Listing

The presence of PFAS contamination at locations, including water treatment plants.

Date of Government Version: 11/18/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/11/2021	Telephone: 502-564-3410
Date Made Active in Reports: 06/14/2021	Last EDR Contact: 06/10/2021
Number of Days to Update: 95	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

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.

Date of Government Version: 04/27/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/03/2021	Telephone: 202-564-6023
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	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: 03/22/2021	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/24/2021	Telephone: 202-366-4555
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 04/09/2021	Source: DEP, Emergency Response
Date Data Arrived at EDR: 04/09/2021	Telephone: 502-564-2380
Date Made Active in Reports: 06/28/2021	Last EDR Contact: 07/07/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/25/2021
	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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 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: 02/11/2021	
Date Data Arrived at EDR: 02/17/2021	
Date Made Active in Reports: 04/05/2021	
Number of Days to Update: 47	

Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 05/18/2021 Next Scheduled EDR Contact: 08/30/2021 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: 07/13/2021 Next Scheduled EDR Contact: 10/25/2021 Data Release Frequency: Varies

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 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019 Number of Days to Update: 574 Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/09/2021 Next Scheduled EDR Contact: 10/18/2021 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 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 63 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 05/18/2021 Next Scheduled EDR Contact: 08/23/2021 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: 03/22/2021 Date Data Arrived at EDR: 03/23/2021 Date Made Active in Reports: 06/17/2021 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 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 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 04/30/2021 Next Scheduled EDR Contact: 08/16/2021 Data Release Frequency: No Update Planned

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 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 73 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 05/07/2021 Next Scheduled EDR Contact: 08/16/2021 Data Release Frequency: Varies

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 Date Data Arrived at EDR: 06/17/2020 Date Made Active in Reports: 09/10/2020 Number of Days to Update: 85 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 06/17/2021 Next Scheduled EDR Contact: 09/27/2021 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 Date Data Arrived at EDR: 08/14/2020 Date Made Active in Reports: 11/04/2020 Number of Days to Update: 82 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 05/17/2021 Next Scheduled EDR Contact: 08/30/2021 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: 04/19/2021 Date Data Arrived at EDR: 04/20/2021 Date Made Active in Reports: 07/16/2021 Number of Days to Update: 87 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/19/2021 Next Scheduled EDR Contact: 11/01/2021 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: 04/27/2021 Date Data Arrived at EDR: 05/03/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 16 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 09/13/2021 Data Release Frequency: Annually

RMP: Risk Management Plans

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: 01/22/2021 Date Data Arrived at EDR: 02/18/2021 Date Made Active in Reports: 05/11/2021 Number of Days to Update: 82 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 07/14/2021 Next Scheduled EDR Contact: 11/01/2021 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 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 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: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/16/2021
	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: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	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 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: No Update Planned

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: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/01/2021
	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: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/27/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/13/2021
	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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency Telephone: N/A Last EDR Contact: 05/27/2021 Next Scheduled EDR Contact: 09/13/2021 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: 05/07/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/16/2021
	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.

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: 06/22/2021 Next Scheduled EDR Contact: 10/11/2021 Data Release Frequency: No Update Planned

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 Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 04/27/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/09/2021
	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: 06/30/2021 Date Data Arrived at EDR: 07/14/2021 Date Made Active in Reports: 07/16/2021 Number of Days to Update: 2 Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 07/02/2021 Next Scheduled EDR Contact: 10/18/2021 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: 12/31/2017 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 151 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/21/2021 Next Scheduled EDR Contact: 10/04/2021 Data Release Frequency: Biennially

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.

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Nex

Source: USGS Telephone: 202-208-3710 Last EDR Contact: 07/02/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: Varies

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
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 04/28/2021 Next Scheduled EDR Contact: 08/16/2021 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 Date Data Arrived at EDR: 11/15/2019 Date Made Active in Reports: 01/28/2020 Number of Days to Update: 74 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/21/2021 Next Scheduled EDR Contact: 08/30/2021 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021Source: EnvironDate Data Arrived at EDR: 05/03/2021Telephone: 703-Date Made Active in Reports: 05/19/2021Last EDR ContactNumber of Days to Update: 16Next Scheduled

Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 06/29/2021 Next Scheduled EDR Contact: 10/11/2021 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 1931and 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 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36 Source: American Journal of Public Health Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 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.

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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: No Update Planned							
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: No Update Planned							
US MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	d for mines active or opened since 1971. The data also includes							
Date of Government Version: 02/01/2021 Date Data Arrived at EDR: 02/24/2021 Date Made Active in Reports: 05/19/2021 Number of Days to Update: 84	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 05/25/2021 Next Scheduled EDR Contact: 09/06/2021 Data Release Frequency: Semi-Annually							
MINES VIOLATIONS: MSHA Violation Assessmen Mines violation and assessment information.	t Data Department of Labor, Mine Safety & Health Administration.							
Date of Government Version: 05/27/2021 Date Data Arrived at EDR: 05/27/2021 Date Made Active in Reports: 06/10/2021 Number of Days to Update: 14	Source: DOL, Mine Safety & Health Admi Telephone: 202-693-9424 Last EDR Contact: 07/01/2021 Next Scheduled EDR Contact: 09/13/2021 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: 05/06/2020 Date Data Arrived at EDR: 05/27/2020 Date Made Active in Reports: 08/13/2020 Number of Days to Update: 78	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 05/27/2021 Next Scheduled EDR Contact: 09/06/2021 Data Release Frequency: Varies							
US MINES 3: Active Mines & Mineral Plants Datab Active Mines and Mineral Processing Plant op of the USGS.	ase Listing erations for commodities monitored by the Minerals Information Team							
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: 05/27/2021 Next Scheduled EDR Contact: 09/06/2021 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.								

Date of Government Version: 03/23/2021 Date Data Arrived at EDR: 03/25/2021 Date Made Active in Reports: 06/17/2021 Number of Days to Update: 84 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 06/14/2021 Next Scheduled EDR Contact: 09/20/2021 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: 02/03/2021 Date Data Arrived at EDR: 03/03/2021 Date Made Active in Reports: 04/05/2021 Number of Days to Update: 33 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 05/18/2021 Next Scheduled EDR Contact: 09/13/2021 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 04/04/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/06/2021	Telephone: 202-564-2280
Date Made Active in Reports: 06/25/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/18/2021
	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: 11/03/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-564-0527
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018	Source: D
Date Data Arrived at EDR: 07/02/2020	Telephone
Date Made Active in Reports: 09/17/2020	Last EDR (
Number of Days to Update: 77	Next Sche

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 07/07/2021 Next Scheduled EDR Contact: 10/25/2021 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: 02/17/2021 Date Data Arrived at EDR: 02/17/2021 Date Made Active in Reports: 03/22/2021 Number of Days to Update: 33 Source: EPA Telephone: 800-385-6164 Last EDR Contact: 05/14/2021 Next Scheduled EDR Contact: 08/30/2021 Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 04/26/2021
Number of Days to Update: 3

ASBESTOS: Asbestos Notification Listing Asbestos sites

> Date of Government Version: 03/02/2021 Date Data Arrived at EDR: 03/04/2021 Date Made Active in Reports: 05/26/2021 Number of Days to Update: 83

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

> Date of Government Version: 12/01/2020 Date Data Arrived at EDR: 04/06/2021 Date Made Active in Reports: 04/07/2021 Number of Days to Update: 1

DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

> Date of Government Version: 04/23/2021 Date Data Arrived at EDR: 04/23/2021 Date Made Active in Reports: 04/26/2021 Number of Days to Update: 3

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 Data Release Frequency: Semi-Annually

Source: Department of Environmental Protection Telephone: 502-782-6780 Last EDR Contact: 05/24/2021 Next Scheduled EDR Contact: 09/13/2021 Data Release Frequency: Varies

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 Data Release Frequency: No Update Planned

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 Data Release Frequency: Semi-Annually

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

Date of Government Version: 04/26/2021 Date Data Arrived at EDR: 04/28/2021 Date Made Active in Reports: 07/13/2021 Number of Days to Update: 76

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 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: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 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: 04/23/2021 Date Data Arrived at EDR: 04/23/2021 Date Made Active in Reports: 07/12/2021 Number of Days to Update: 80 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 07/20/2021 Next Scheduled EDR Contact: 11/08/2021 Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD: Environmental Lead Program Report Tracki Lead Report Tracking Database	ing 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: 05/12/2021 Next Scheduled EDR Contact: 08/16/2021 Data Release Frequency: Varies								
NPDES: Permitted Facility Listing A listing of permitted wastewater facilities.									
Date of Government Version: 04/28/2021 Date Data Arrived at EDR: 04/29/2021 Date Made Active in Reports: 07/19/2021 Number of Days to Update: 81	Source: Department of Environmental Protection Telephone: 502-564-3410 Last EDR Contact: 04/28/2021 Next Scheduled EDR Contact: 08/16/2021 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: 04/07/2021 Date Data Arrived at EDR: 04/13/2021 Date Made Active in Reports: 06/30/2021 Number of Days to Update: 78	Source: Kentucky Geological Survey Telephone: 859-323-0544 Last EDR Contact: 07/13/2021 Next Scheduled EDR Contact: 10/25/2021 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: 05/27/2021 Next Scheduled EDR Contact: 09/06/2021 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: 06/30/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: No Update Planned								
PCS INACTIVE: Listing of Inactive PCS Permits An inactive permit is a facility that has shut do	wn 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: 06/30/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: No Update Planned								
1 5	ion system that contains data on National Pollutant Discharge Elimination S tracks the permit, compliance, and enforcement status of NPDES								
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: 06/30/2021 Next Scheduled EDR Contact: 10/18/2021 Data Release Frequency: No Update Planned								

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

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/15/2014 Number of Days to Update: 198 Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 10/05/2020 Date Data Arrived at EDR: 02/17/2021 Date Made Active in Reports: 05/10/2021 Number of Days to Update: 82	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 05/11/2021 Next Scheduled EDR Contact: 08/23/2021 Data Release Frequency: No Update Planned							
NJ MANIFEST: Manifest Information Hazardous waste manifest information.								
Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019 Number of Days to Update: 36	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 07/09/2021 Next Scheduled EDR Contact: 10/18/2021 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 facility.								
Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 04/29/2020 Date Made Active in Reports: 07/10/2020 Number of Days to Update: 72	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 04/30/2021 Next Scheduled EDR Contact: 08/09/2021 Data Release Frequency: Quarterly							
PA MANIFEST: Manifest Information Hazardous waste manifest information.								
Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019 Number of Days to Update: 53	Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 07/07/2021 Next Scheduled EDR Contact: 10/25/2021 Data Release Frequency: Annually							

RI MANIFEST: Manifest information Hazardous waste manifest information

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY

Date of Government Version: 12/31/2019 Date Data Arrived at EDR: 02/11/2021 Date Made Active in Reports: 02/24/2021 Number of Days to Update: 13 Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 05/13/2021 Next Scheduled EDR Contact: 08/30/2021 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: 06/03/2021 Next Scheduled EDR Contact: 09/20/2021 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

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

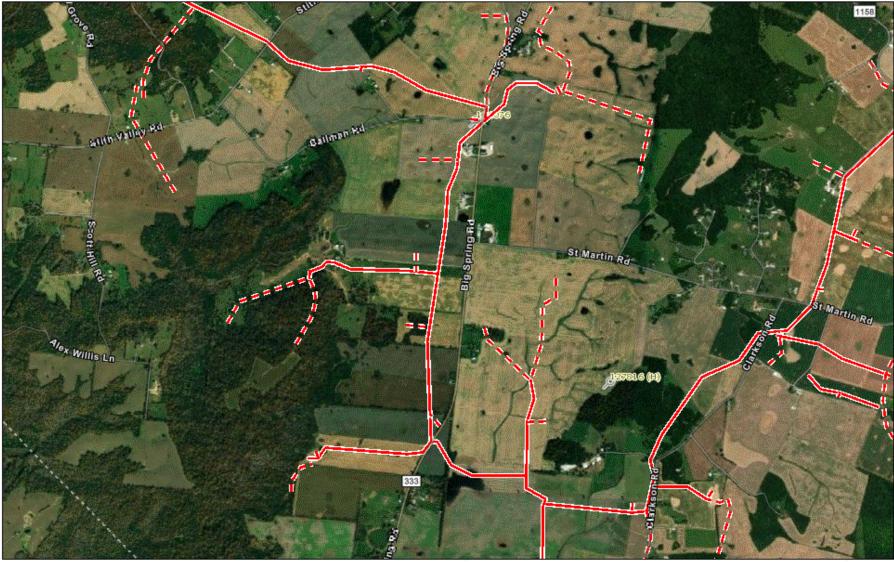
Source: Environmental & Public Protection Cabinet Telephone: 502-564-6736

STREET AND ADDRESS INFORMATION

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Appendix D

KGS & NPMS Maps / Well Records



Kentucky Geologic Map Information Service

July 23, 2021									1:36,11	2	
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author: Kentucky Geological Survey



NATIONAL PIPELINE MAPPING SYSTEM

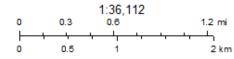




Kentucky Geologic Map Information Service

July 23, 2021

Record Number



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Alitous DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

author: Kentucky Geological Survey

Oil Production Data: n/a

Formation Tops Data: n/a

Gas Production Data: Gas Production Report

Pay Report: Pay Report

id=116026)



Oil and Gas Well Information: Record Number: 116026 PDF Link (if available): PDF Document (https://kgs.uky.edu/OG images/0/0/1/1/6/R00116026/R00116026.pdf) Elog Link (if available): Display E-Log (https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp? recno=116026) Permit Number: 89795 Well Number: 1 Quadrangle: Big Spring **County:** Meade Carter Coordinates: 3-P-41 2400N, 200W Surface Elevation: 743 ft Vertical Depth: 1130 ft Measured (horizontal) Depth: **Operator:** NORTHLAND OPERATING CO Farm Name: HAMILTON, ROBERT F Completion Date: 10/31/1998 Total Depth Formation: Silurian-Brownsport Fm Associated data and reports (if available): Horizontal Survey: n/a Core Report: n/a Core Analysis: n/a Sample Report: n/a

recNum=116026&prodType=gas)

(https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?

(https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?



Oil and Gas Well Information: Record Number: 121624 PDF Link (if available): PDF Document (https://kgs.uky.edu/OG images/0/0/1/2/1/R00121624/R00121624.pdf) Elog Link (if available): Display E-Log (https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp? recno=121624) Permit Number: 91555 Well Number: 2 Quadrangle: Big Spring **County:** Meade Carter Coordinates: 3-P-41 1105N, 2140W Surface Elevation: 758 ft Vertical Depth: 990 ft Measured (horizontal) Depth: **Original Operator: QUEEN SAND OPERATING COMPANY** Most Recent Operator: SPN ENERGY, LLC Farm Name: HAMILTON, ROBERT Completion Date: 1/13/2001 Total Depth Formation: Devonian-New Albany Sh Associated data and reports (if available): Horizontal Survey: n/a Core Report: n/a Core Analysis: n/a Sample Report: n/a Oil Production Data: n/a Gas Production Data: Gas Production Report (https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp? recNum=121624&prodType=gas)

Pay Report: Pay Report

(https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp? id=121624)

Formation Tops Data: n/a



Oil and Gas Well Information: Record Number: 121660 PDF Link (if available): PDF Document (https://kgs.uky.edu/OG images/0/0/1/2/1/R00121660/R00121660.pdf) Elog Link (if available): Display E-Log (https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp? recno=121660) Permit Number: 91595 Well Number: 3 Quadrangle: Big Spring **County:** Meade Carter Coordinates: 3-P-41 4940N, 1936W Surface Elevation: 719 ft Vertical Depth: 985 ft Measured (horizontal) Depth: **Original Operator: QUEEN SAND OPERATING COMPANY** Most Recent Operator: SPN ENERGY, LLC Farm Name: HAMILTON, ROBERT Completion Date: 2/24/2001 Total Depth Formation: Devonian-New Albany Sh Associated data and reports (if available): Horizontal Survey: n/a Core Report: n/a Core Analysis: n/a Sample Report: n/a Oil Production Data: n/a Gas Production Data: Gas Production Report (https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp? recNum=121660&prodType=gas) Pay Report: Pay Report

(https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp? id=121660)

Formation Tops Data: n/a



Oil and Gas Well Information: Record Number: 123201 PDF Link (if available): PDF Document (https://kgs.uky.edu/OG images/0/0/1/2/3/R00123201/R00123201.pdf) Elog Link (if available): n/a Permit Number: 92461 Well Number: 1 Quadrangle: BIG SPRING County: Meade Carter Coordinates: 25-Q-41 4838N, 1688W Surface Elevation: 690 ft Vertical Depth: 1002 ft Measured (horizontal) Depth: **Original Operator: DEVX OPERATING COMPANY** Most Recent Operator: SPN ENERGY, LLC Farm Name: BENNETT, MARION W Completion Date: 11/1/2001 Total Depth Formation: Devonian-Jeffersonville Ls Associated data and reports (if available):

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Horizontal Survey: n/a
Core Report: n/a
Core Analysis: n/a
Sample Report: n/a
Oil Production Data: n/a
Gas Production Data: Gas Production Report
(https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?
recNum=123201&prodType=gas)
Pay Report: Pay Report
(https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?
id=123201)
Formation Tops Data: n/a
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Oil and Gas Well Report: 123202



Oil and Gas Well Information: Record Number: 123202 PDF Link (if available): PDF Document (https://kgs.uky.edu/OG images/0/0/1/2/3/R00123202/R00123202.pdf) Elog Link (if available): n/a Permit Number: 92463 Well Number: 2 Quadrangle: BIG SPRING County: Meade Carter Coordinates: 25-Q-41 2505N, 753W Surface Elevation: 758 ft Vertical Depth: 1076 ft Measured (horizontal) Depth: **Original Operator: DEVX OPERATING COMPANY** Most Recent Operator: SPN ENERGY, LLC Farm Name: BENNETT, MARION W Completion Date: 11/1/2001 Total Depth Formation: Devonian-Jeffersonville Ls Associated data and reports (if available): Horizontal Survey: n/a

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Core Report: n/a
Core Analysis: n/a
Sample Report: n/a
Oil Production Data: n/a
Gas Production Data: Gas Production Report
(https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?
recNum=123202&prodType=gas)
Pay Report: Pay Report
(https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?
id=123202)
Formation Tops Data: n/a
```

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

11. The presence of gas wells mentioned in the application may indicate the presence of buried gas gathering lines that are associated with these wells and may interfere with the installation of solar panels. There are two statewide GIS databases that are available to the public: one, which was used in the SAR, from the Kentucky Geological Survey (KGS), and the other from the Kentucky Division of Oil and Gas (KDOG). KDOG focuses on permitting producing as wells and collects data on their gas gathering lines.

a. Explain whether Photo 5 was taken in St. Martins, Big Springs, or another location.

b. The SAR Map centers on the Target Property, which occurs midway between the Big Spring Section and the Stith Section. Well 10 is within the Stith Valley Property and Well 12 is within the Big Spring Property. All of the gas wells that surround these properties are not included on this map due to the definition of the Target Property. Provide one map for each of these properties using the centroid for each property (see the Notice of Intent) to search for features within 1 or 1.5-mile radius. The EDR Radius Map Report with Geocheck and its results (pages 53-129) should be revised to take this into account and provided in response to this request.

c. The data from the KDGO, which issues permits for producing gas wells, shows that some of these wells in this area have been producing and the operator is Comstock Oil & Gas Inc. or Comstock Resources. In addition, wells to the north and east of Well 12 have been producing and have gathering lines on the Big Spring Property. Explain whether you contacted the KDOG for information, and if so, provide this information.

d. Explain whether you have contacted the presumed owners/operators of the gas wells and gas gathering lines.

e. Submit copies of any contracts, leases, or agreements concerning the gas systems with owners on the properties for Meade County Solar.

f. Provide a list of the wells that have been plugged. Provide a list of any well that needs to be plugged before construction begins.

g. Explain if any arrangements to have any of the gas gathering lines moved to accommodate the solar panels have been or will be made.

Item 11 Page 2 of 15 Witness: Jason Boston

Response:

a. Photo 5 was taken at the Hidden Spring Farm (formerly Hamilton Farm), a subset of the Big Spring section of the proposed project site.

b. An additional EDR Radius Map Report, showing each of the proposed project sections, has been added to the updated ESA which is provided as Attachment Appendix A Response 10 (refer to pages 129-189 of the updated ESA).

c. The KDOG website was utilized to identify the NPMS interactive map included in the new Appendix D of the ESA referred to in response 10 a. above.

d. The Applicant has contacted the operator of the gas wells and gas gathering lines on the proposed project site.

e. Please see attached 'Meade County Solar_Oil And Gas Lease - Bennett', pages
3-4 of this response and 'Meade County Solar_Oil And Gas Lease – Hamilton', pages 5-15 of this response.

f. The two (2) wells on the proposed project site are identified on the KGS map in the new Appendix D of the ESA referred to in response 10 a. above. Records for each well are also included in Appendix D. Neither of the wells on-site have been capped. The Applicant does not anticipate the need to cap either well before construction begins.

g. The Applicant intends to build around the existing gas gathering lines on the proposed project site, and does not anticipate making any arrangements to have any of the gas gathering lines moved to accommodate the solar panels.

5	FORM - CB - 101 - REV - 7 - 70 Schulze Printing Inc., Producers 88 SP. T.O.P. REV.	OIL	AND GAS Kentucky				
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	If said lessor owns a less interest in the above described hand the lessor only in proportion which his interest bears to the whole and und	in the ent	tire and undivided	fee simple estate the	rein, then the royaltles and rentals	s herein provided shall be	paid the
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Lessee shall pay for dange caused by its operation to growing crops on said lands.

Lessee shall have the right at any time to remove all eachinery and fixtures placed on said premises, including the right to draw and remove casing. If the lassee shall continue to drill a well within the term of this lesse or any extension thereof, the lessee shall have the right to drill such well to completion with reasonable dillegence and dispatch, and if oil and gas, or either of them, be found in paying quantities, this lesse shall continue and be in force with like effect as if such well bed been completed within the term of years herein. first mentioned.

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Lessor horrby warrants and agrees in defend the title to the morrgage, taxes or other lines can the above described lands, in the any such payments made by the lesser for the lessor shall be deduct. The undersigned lessors, for themselves and their heirs, succ as said rights of domer and homesical may in any say affect the pay the Debuck the deposing has becaustic for every site and a subscrapes	lands here in described, a event of default of paymen ed from any anounts of money essors and assigns, hereby a pose for which this lease is , lessee of his assigns may nost office address.	nd agrees that the lessee : t by lessor, and be subrog which may become due the i urrender and release all ri mode as recited herein. deposit rentals in any Nati	shall have the right at any p aled to the rights of the hold lessor under the terms of this lights of dower and homestead i lights of dower and homestead i	ne to redeem for lessor, by payment any er hereof and lessor hereby agrees that lesse. In the premises herein described insofar by with first named bank, due notice of
1) proposes. As full consideration for these rights feater shall be class of the second second second second second second second All express or implied covenants of this lease shall be subjec- tease shall not be terminated, in whole or in part, nor lease b tease shall not be terminated. In whole or in part, nor lease b	y to lesser an annual contail of all Federal and State I seld liable for any failure i	ars and to all executive of o perform thereunder if su	rders, rules or regulations of uch failure is due or is the	State and Federal authorities and this result of any such law, order, rule or
SEE ADDENDUM AT				
IN WITNESS WEADOR WE SIGN, this the	(SEAL) (SEAL) (SEAL) (SEAL)	Robert F. Jaw Bobert E. Martha Jar	er Hamiltong. Hamiltong. Hamilton S	(SAL) (S
Charles T. Mu This instrument was prepared by: Charles T. Mu	lligan 11igan	nhose address is: PO [3 o x 1 6 5 5 Henc	<u>ersonKy42420</u>

¥ 5 Во́ок 384 ра	345		Item 11 Page 6 of 15 Witness: Jason Boston
STATE OF KENTUCKY)		Witness. Jason Boston
COUNTY OF Meade	(33.	ACKNOWLEDGMENT TO THE LEAS	E
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the State aforesaid do hereby cer	ify that Robert F.	Adudy Advir Gie Norr Public, in Hamiliton Jr ife.	and for said consist in
and Martha Jane			
perconally known to me to be the ru	and a series S where some S	subscribed to the foreg	
hefore me this day in person and	acknowledged that	Lhe_ysigned, scaled and deliver	ed the said interment as
of homestead and dower.	act for the uses and purpos	es therein set forth, including the release	and waiver of the right "
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My commission expires Aug.	23. 1998	Charlest. Marley	County Court Clerk. Notary Public. Special Commission
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STATE OF KENTUCKY,)		
	SS.	ACKNOWLEDGMENT TO THE LEAS	E
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		County Court Cler Notary Public, in	
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My commission expires			County Court Clerk.
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5. ⁴	ASSI	GNMENT	
For and in consideration of (i, and other good and valuable consideration	
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State of Kentucky, County of			8
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		and produced the foregoing assignment	
same to be his act and deed.			
My commission expires			
			x.
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ADDENDUM

BODK 384 PACE 346 Attached to and made a part of that certain 0il & Gas Lease frWitness: Jason Boston Robert F. Hamilton and Martha Jane Hamilton, his wife. as Lessor, 1995. to Four Sevens Oil Co., Ltd., as Lessee, dated September 26, 1995.

- Four Sevens Oil Co., Ltd., as Lessee and Operator, in addition to the terms and conditions contained in the attached Oil & Gas Lease, agree to conduct all its operations in a good and workmanlike manner and agrees to uphold all standards of prudent operations.
- 2. Four Sevens Oil Co., Ltd. agrees to notify Lessor before any operations for drilling or laying pipelines are conducted. Lessor will be consulted with as to the location of any and all roads, drilling locations, or pipeline right of ways. Mutual consent as to such location will be reached between Lessor and Operator pr to conducting any and all operations upon leased land. Lessor's consent shall not be unreasonably withheld.
- Four Sevens Oil Co., Ltd. agrees to compensate Lessor \$1,000.00 per drilling location and the fair market value for all permanent damages caused by its operations upon leased lands associated with 3 . its operations in excess of the aforementioned \$1,000.00, including, but not limited to, permanent damage to growing crops, cultivated but not limited to, permanent damage to growing crops, cultivated land, grazing land, trees, roads. drainage areas. fences. livestock or water wells. Upon completion of any producing wells, the production location and related facilities will be fenced. All roads will be maintained to industry standards and be kept clear of all debris. At the end of all operations upon leased land, Four Sevens agrees to return leased land to as close to its original condition as is practical. Four Sevens Oil Co., Ltd. appreciates the value of the surface estate owned by Lessor, and will conduct its operations with the upmost respect for surface estate.
- 4. In addition to Lessor's free use of gas for personal residential purposes, Lessor is to have the free use of gas from any wells located on the leased lands for reasonable agricultural purposes including, including, but not limited to, grain drying and hog farming purposes. Any connections to producing wells made by Lessor will be made at the Lessor's sole risk and expense. Lessor's connections shall conform to A.G.A. facility and safety specifications and will be inspected prior to Lessor's use.
- 5. Four Sevens Oil Co., Ltd. agrees that prior to plugging any dry holes drilled, an offer to acquire such dry hole will be extended to Lessor. Lessor will have the option to acquire such dry hole free of cost and will have the option to complete and operate such dry hole as a fresh water well. The Lessee shall be responsible and bear the cost of plugging Said dry hole up to water well depth as per State and Federal regulations and statutes. From that point Lessor will be solely responsible for all expenses and risk related to completion, equiping and operating said water wells. If any such offer by Operator is accepted by Lessor, then Operator will relieved of any and all further plugging liabilities. be
- 6. The Lessee shall be responsible for any and all operations related to this lease and any and all liability resulting from its activities on the leased property and shall hold the Lessor harmless from any liability. including but not limited to any legal expenses incurred by Lessor due to the Lessee's activities on the leased property. It is understood and agreed that Lessor shall abide by Addendum ¹tem number four on free gas as stated with the risk and liability thereof.
- 7. Lessee shall comply with all environmental protection laws and regulations and agrees to hold the Lessor harmless and indemnify Lessor from any and all claims, loss or damage including court costs, expert fees or attorney fees incurred in relation thereto.
- It is understood and agreed that there have been certain clauses this lease which have been lined out in blue, and these lined-out clauses are deleted from the lease and shall have no effect, and are expressly excluded from the terms of this Lease and Addendum. RF.H.

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- 9. <u>SHUT-IN WELL CLAUSE:</u> In the event gas is discovered on the leased premise, it is agreed that during any period when, after the discovery of gas on the leased premise, gas is not being sold on account of lack of market, and if there is no apparent production or operation on said land sufficient to keep this agreement in full force and effect, the Lessee may pay as royalty fifty dollars (50.00) per year for each shut-in gas well, and such payment will be considered as if gas is actually being produced within the terms and conditions of this Oil and Gas Lease for a term not to exceed three (3) years, past primary term of said Lease. Such payment shall be made annually in advance, within ninety (90) days following the completion of the well or the secession of a market for gas. Such payment shall be paid or tendered to Lessor or to the depository bank to be specified by the Lessor. No rental shall acrue as to the leased premise during any period covered by shut-in gas payment as herein provided. The shut-in gas payments herein provided for shall be considered advance royalties, and production from the leased premise during any annual period for which shut-in gas rental or royalty has been paid may be credited against such advance payment. It is reiterated that this shut-in gas well clause shall only work to extend the terms of this Lease for not more than an additional three (3) year term.
- 10. All of the above terms and conditions shall extend to and be binding upon the successors and assigns of Lessor and Lessee for the entire term of the attached lease.

Enis, General unter tner Four Sevens Oil Co., Ltd.

bert F. Hamilton 4

Martha & Hamilton

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DEED TAX LODGED AND RECORDED THIS 96 APR 15 PM 2:49 KATHCHINE HENCER MEADE COUNTY CLERK BY US 2 County CLERK

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BOOK 411 PAGE 292

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AMENDMENT TO OIL AND GAS LEASE

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Item 11

KATHERINE IEADE COUN GY.

STATE OF KENTUCKY

COUNTY OF MEADE

KNOW ALL MEN BY THESE PRESENTS:

Reference is made to that certain Oil and Gas Lease, dated September 26, 1995, by and between Robert F. Hamilton, Jr. and Martha Jane Hamilton, his wife, as Lessor and Four Sevens Oll Co. Ltd., as Lessee, recorded in Book 384, at Page 344 in the records of Meade County, Kentucky, covering certain lands situated in Meade County, Kentucky, as more particularly described in said Lease, which, for purposes herein shall be called the "Lease";

Whereas, Queen Sand Resources, Inc., and Indeck Energy Services, Inc. are the present owners of all the leasehold rights under the Lease, and are hereinafter called the "Lessee";

Whereas, it is the desire of both Lessor and Lessee to reform said Lease so as to amend the description of the land intended to be included in said Lease.

Now, therefore, in consideration of the premises and in consideration of the benefits to the parties hereto under the Lease, and further valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lessor and Lessee hereby agree that said Lease shall be, and the same is hereby reformed and amended so that the land covered and to be covered thereby is described as follows:

All that certain tract of land situated in the County of Meade, State of Kentucky and bounded as follows, to-wit:

On the North by lands of T. Hobbs On the East by lands of A. Wathen, C. Clarkson, and G. Grimm On the South by lands of J. Phillips On the West by lands of J. & H. Gohl, and B. Hager

Containing 608 acres, more or less, and being the same land conveyed to lessor by:

Warranty deed dated June 24, 1994, recorded in Deed Book 352 at Page 109; and Warranty deed dated Dec. 15, 1994, recorded in Deed Book 359 at Page 243.

Lessor and Lessee do hereby agree that nothing herein contained shall be construed as altering, amending or affecting the Lease or any of its terms and provisions, except as to the lease description, as hereby amended.

For the consideration recited above, Lessors do hereby ratify and confirm the Lease unto Lessees, their successors and assigns, on the land described above for the purpose set out in the Lease, and all things in accordance with the terms and provisions thereof, and do hereby lease, grant and let unto said Lessees, the lands described in the Lease, as amended hereby, in accordance with the terms and provisions of the Lease.

This amendment may be executed in counterparts, each of which so executed shall be given the effect of execution of the original amendment. If this amendment is executed in counterparts, permission is hereby given to Lessee to combine the various counterparts into one instrument for recordation purposes.

The provisions hereof shall extend to and be binding upon the heirs, successors, legal representatives and assigns of the parties hereto.

BUNK 411 PAGE 293

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EXECUTED this 24 day of <u>August</u>, 1998.

LESSORS:

Robert F. Hamilton, Jr.

LESSEES:

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Queen Sand Resources, Inc.

llanso lΛ By: Bill A. Williamson, Vice-President

Indeck Energy Services, Inc.

By:_

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This instrument was prepared by Barney W. Brooks for Queen Sand Resources, Inc. 3500 Oak Lawn Ave. Suite 380 Dallas, TX 75219

Acknowledgments

State of Kentucky

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County of Meade

Notary Public in and for said county, in the State a foresaid do hereby certify that Robert F. Hamilton Jr. and Martha Jane Hamilton, his wife, personally known to me to be the same persons whose names subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act for the uses and purposes therein set forth, including the release and waiver of the right of homestead and dower.

day of augua Given under my hand this A 4 . 1998. My commission expires 9/17/98 White Kastate at hanse

EXECUTED this 24 day of <u>august</u>, 1998.

BOOK 411 PAGE 294

15 1

LESSORS:

Robert F. Hamilton, Jr.

ute A ane. Martha Jane Hamilton

LESSEES:

Queen Sand Resources, Inc.

By: man Williamson, Vice-President

Indeck Energy Services, Inc.

By: VICE RESIDENT Seences

This instrument was prepared by Barney W. Brooks for Queen Sand Resources, Inc. 3500 Oak Lawn Ave. Suite 380 Dallas, TX 75219

Acknowledgments

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State of Kentucky County of Meade

Notary Public in and for said county, in the State aforesalt do hereby certify that Robert F. Hamilton Jr. and Martha Jane Hamilton, his wife, personally known to me to be the same persons whose names subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act for the uses and purposes therein set forth, including the release and waiver of the right of homestead and dower.

Given under my hand this <u>34</u> day of <u>August</u> , 1998. My commission expires 9/17 198 Public, Ky State at hanse

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	Acknow	vledgments	BOOK	411 PAG	E 295
State of Texas)(
County of Dallas)(
BEFORE ME, the unit Dill a. Milliance is subscribed to the foregoing same for the purposes and c of Queen Sand Resources, I CIVEN UNDER MY H	and the second s	wn to me to be the sau and acknowledged to herein expressed, as corporation, on beha	me person v me that he <u>loca</u> If of such co	whose nan executed a <u>a c</u> cd a co prporation.	t
My commission expires REBECCA R ALLENSI NOTARY PUB State of Tex. Comm Exp 04-15	-15-2000 WORTH	By Reserve	f. G.	Ulius ALLENS	Worth
State of Illinois)()(
BEFORE ME, the une MKe Janc Mike is subscribed to the foregoing same for the purposes and c of Indeck Energy Services, In corporation.	, kno g instrument, onsideration	wn to me to be the sar and acknowledged to herein expressed, as	me person with the line that he	whose nan executed	0
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> Northland Operating Co 3500 Oak Laune, Ste 380, 8B#31 Dallad, Tx 75219-4398

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BEOK 566 PAGE 306

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ASSIGNMENT OF ROYALTY RIGHTS DUE UNDER OIL AND GAS LEASE

THIS ASSIGNMENT is made and entered into as of the $24^{\frac{14}{2}}$ day of $\frac{1}{2}$, 2010,

by and between:

5

ROBERT F. HAMILTON, JR. and MARTHA JANE HAMILTON, his wife, 4316 Big Spring Road Vine Grove, Kentucky 40175 Hereinafter referred to collectively as "Assignor";

and

ROMAN CATHOLIC BISHOP OF LOUISVILLE, A CORPORATION SOLE, P.O. Box 1073 Louisville, Kentucky 40201-1073 Hereinafter referred to as "Assignee";

WITNESSETH:

RECITALS

- Assignor is the owner and Lessor of certain property under an Oil and Gas Lease A. dated September 26, 1995 recorded in Decd Book 384, Page 344, as Amended on August 24, 1998 recorded in Deed Book 411, Page 292, all of record in the Office of the Clerk of the County Court of Meade County, Kentucky.
- В. Assignor is entitled to certain royalty payments under said Lease Agreement as amended for property commonly referred to as Gohl #1 Well, R.F. Hamilton #1

Well, Robert Hamilton #2 Well, and Robert Hamilton #3 Well.

ASSIGNMENT

For good and valuable consideration, the parties do hereby agree as follows:

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2010 AUG I I PM 12: 02 KATRINA FITZGERALD

Assignor does hereby assign, transfer and convey to Assignee all right, title and interest of Assignor, in and to all royalty payments due under said Lease Agreement as described above for a five (5) year period beginning the $\frac{12^{4}}{2}$ day of $\frac{12^{4}}{2}$ day of $\frac{12^{4}}{2}$, 2010 and ending the $\frac{31^{4}}{2}$ day of $\frac{12^{4}}{2}$, 2015.

2. Assignor represents and warrants to Assignee:

1.

- Assignor has delivered to Assignee a true, correct and complete copy of the Lease and all Amendment thereto;
- b. Neither Assignor nor the Lessee under the Lease is in default under the Lease;
- c. Assignor has full power to execute this Assignment.
- 3. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky and shall be binding on and inure to the benefit of the parties and their respective heirs, personal representatives, successors and assigns.

WITNESS the signatures of Assignor and Assignee as of the above date ASSIGNOR: <u>Rolet F Na Ita</u> <u>BLIC</u> <u>ROBERT F. HAMILTON, JR</u> <u>Martha Janut Hamilton</u>

ASSIGNEE:

ROMAN CATHOLIC BISHOP OF LOUISVILLE, A CORPORATION SOLE,

oher TITLE: Chief Finguen Officer

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BOOK 566 PAGE 308 STATE OF KENTUCKY) HARDIN) SS: COUNTY OF MEADE

1. 25

I hereby certify that the foregoing Assignment was subscribed, sworn to and acknowledged before me this $\underline{A4^{\mu}}$ day of \underline{Guly} , 2010, by ROBERT F. HAMILTON, JR. and MARTHA JANE HAMILTON, his wife, to be their free act and deed.

My commission expires: 2/21/2013 ARY PUBLIC

STATE OF KENTUCKY

COUNTY OF JEFFERSON

I hereby certify that the foregoing Assignment was subscribed, sworn to and acknowledged before me this 3.1 day of <u>Curgust</u>, 2010, by <u>Colut S. Coh</u>as <u>Chief Francial Official</u> of ROMAN CATHOLIC BISHOP OF LOUISVILLE, A CORPORATION SOLE, to be his free act and deed and the free act and deed of said corporation.

3

)) SS:

My commission expires: april 11, 2014.

STATE-AT-LARGE, KY NC V PLIBLIC

THIS INSTRUMENT PREPARED BY:

L

P. KÉVÍN FORD FORD LAW OFFICE Attorney at Law 161 St. Matthews Avenue, Suite 14 Louisville, Kentucky 40207 Phone: (502) 894-0520 Fax: (502) 894-0211 E-mail: <u>kford@fordlegal.com</u>

/ARCHDIOCESE-ST MARTIN FLAHERTY-HAMILTON-ASSIGNMENT ROYALTIES:tag



END GF

Item 12 Page 1 of 2 Witness: Chris Killenberg

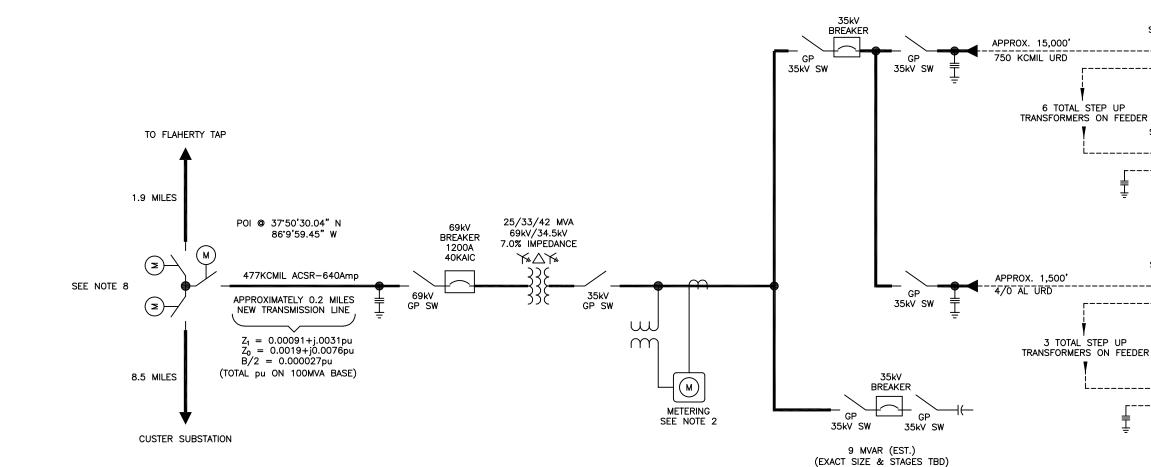
Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

12. Submit the Electrical One-Line diagram of the installation.

Response:

Please see attached 'Meade County Solar One Line Diagram', page 2 of 2 of this

response.



GENERATION SUMMARY:

RATED OUTPUT @ 69kV POI = 40MW @ 40°C FLA @ 1.0PF = 335 AMPS

COLLECTION S	YSTEM EQUIVALENT	IMPEDAN
SOLAR ONLY	R(1) 0.03	X(1) 0.028
$\frac{\text{INVERTER SHO}}{Z(1)} = Z(2)$ $Z(0) = \infty$	<u>RT_CIRCUIT_DATA</u> = 0.8pu	

NOTES:

1. ONE LINE BASED ON FIGURE 1, "TYPICAL TRANSMISSION LINE SUPPLY CONFIGURATION, 69kV BIG RIVERS FACILITY CONNECTION REQUIREMENTS, CMP-FAC-01.

2. THE PROPOSED METERING WILL BE INSTALLED ON THE LOW SIDE OF THE TRANSFORMER USE EXTENDED RANGE CT'S (0.15% ACCURACY) AND STANDARD METERING ACCURACY PT'S AND A SEL-735 METER WIRED IN A STANDARD 3 ELEMENT ARRANGEMENT. THE METER WILL BE PROGRAMMED WITH THE FACTORY TEST LOSSES FOR THE SUBSTATION TRANSFORMER.

3. CABLE SIZES AND DISTANCES BETWEEN STEP UP TRANSFORMERS TO BE BASED ON ACTUAL FIELD CONDITIONS. ESTIMATE 1500' BETWEEN TRANSFORMERS.

4. SOLAR INVERTERS ARE TMEIC PVU-LO840GR, SOLAR WARE NINJA UNITS WITH SIX(6) INVERTERS PER TRANSFORMER/SKID INSTALLATION AND ARE UL1741 & IEEE 1547 LISTED. INVERTERS ARE RATED 755kW(795kVA) EACH OR 4530kW(4770kVA) PER TRANSFORMER AT 0.95 PF AT 40°C. EXACT RATINGS TO BE CONFIRMED DURING FINAL DESIGN. POI OPERATING PF TO BE 0.95 TO 0.95 WITH INVERTERS AND SWITCHED CAPACITOR BANK. 5. ESTIMATE TRANSFORMER IMPEDANCE ASSUMED X/R = 30, TERTIARY IS BURIED. H-X -

H-Y	R(1) = 0.23% R(0) = 0.18%	X(1) = 6.99% X(0) = 5.60%
н-т Х-Ү	R(1) = 0.41% R(0) = 0.33%	X(1) = 12.58% X(0) = 10.08%
<u>v</u> -1	$\begin{array}{rcl} R(1) &=& 0.16\% \\ R(0) &=& 0.13\% \end{array}$	X(1) = 4.89% X(0) = 3.92%

6. ALL 69kV AND 34.5kV RELAYING TO BE DESIGNED LATER ALONG WITH UTILITY SCADA INTERFACE(S).

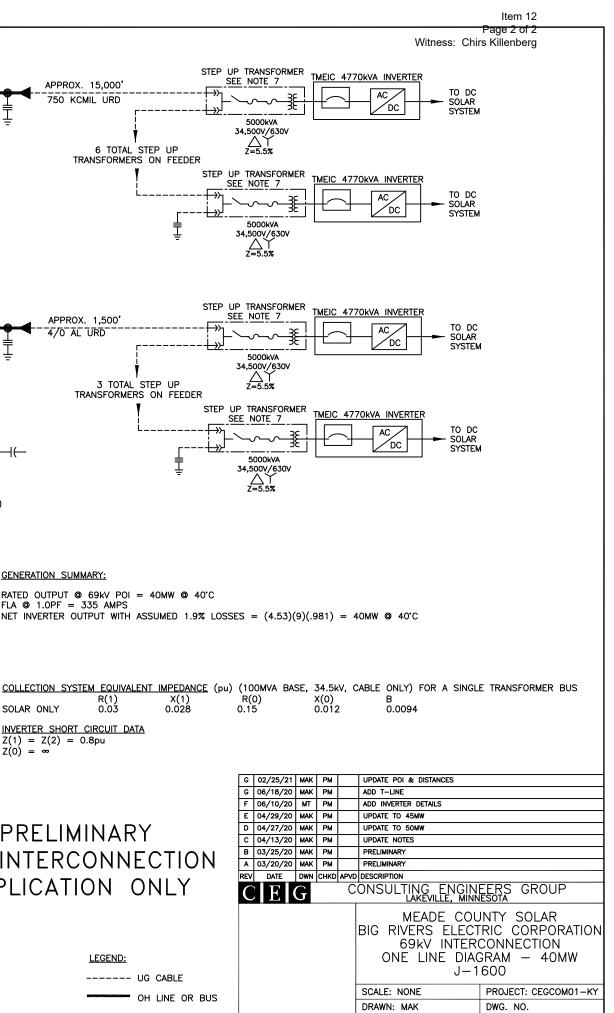
7. STEP-UP TRANSFORMERS SUPPLIED WITH INVERTERS WITH NO LOAD TAPS $(\pm 5\%, \pm 2.5\%, 0)$ AND ASSUMED X/R=10. ESTIMATE TRANSFORMER IMPEDANCE R(1) = 0.55%X(1) = 5.47% $R(0) = \infty$ X(0) = [∞]

8. EXACT CONFIGURATION OF SWITCHES, MOD'S AND SCADA CONTROL TO BE DETERMINED BASED ON LOCAL CONDITIONS AND OPERATING PRACTICES.

PRELIMINARY FOR INTERCONNECTION APPLICATION ONLY

LEGEND:

---- UG CABLE - OH LINE OR BUS



DATE: 03/20/20

MEADE-OL-01RH

Item 13 Page 1 of 3 Witness: Chris Killenberg

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

13. Revise the 2-mile radius site plan and provide the substation layout diagram, if available.

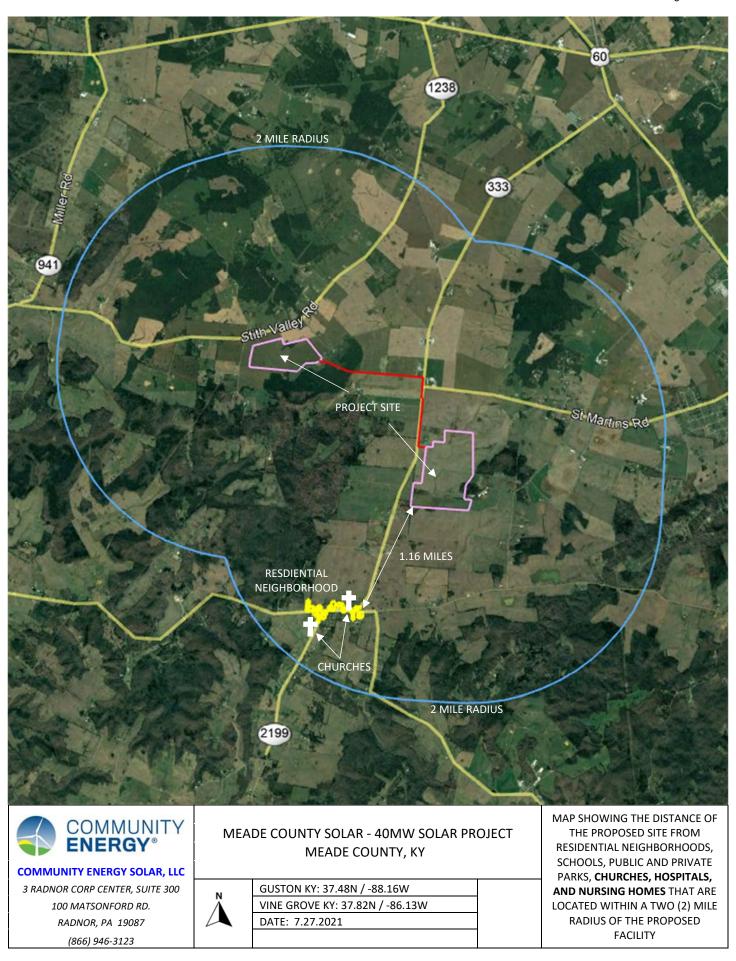
Response:

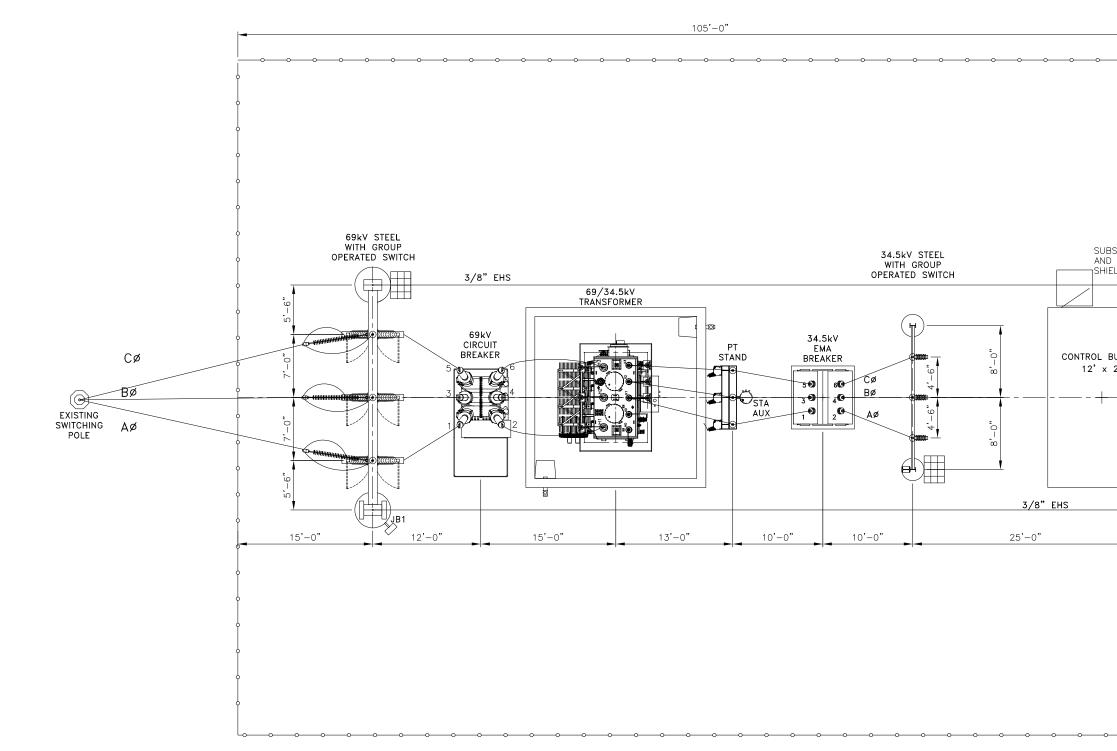
Please see attached 'Meade County Solar updated 2-mile radius map 7-27-21', page 2

of 3 of this response.

Please see attached 'Meade County Solar Substation Layout Diagram', page 3 of 3 of

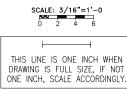
this response.





MINIMUM CLEARANCES

	69kV	34.5kV
RIGID BUS		
Ø TO GROUND	29"	15"
MIN. METAL TO METAL	31"	18"
ABOVE GRADE IN SUB	11'	10'



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LDING	12'-6"			
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		ELECTRIC	UNIY SO UBSTATIOI CAL ALYOU EW SAMPI	N JT
	SCALE: A	S SHOWN	PROJECT: DWG. NO.	####
	DRAWN: P DATE: 10			-EL-01RA

Item 14 Page 1 of 1 Witness: Chris Killenberg

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

14. Submit a Site Plan that identifies public structures including Churches, Hospitals and Nursing Homes, etc. If there are no public structures found, the applicant shall provide a statement or compliance with the application.

Response:

Please see 'Meade County Solar updated 2-mile radius map 7-27-21', attached as page

2 of 3 of the response to Item 13 above.

The updated 2-mile radius map identifies two churches adjacent to the residential neighborhood located approximately 1.16 miles south of the proposed project site. There are no hospitals, nursing homes, or other public structures within a 2-mile radius of the proposed project site.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

15. The Site plans provide that the solar farms of the project are at two different sites and are connected electrically by installing underground power lines. Provide information and compliance on the underground installation of the electrical power lines, as well as impact on the surrounding area.

Response:

The 34.5kV power lines connecting the Big Spring Section of the proposed project site to the Stith Valley Section of the proposed project site will be installed primarily underground and primarily on private property.

The northerly run of the connector exiting the Big Spring Section of the proposed project site will be installed on the east side of the KY 333/Big Spring Rd right-of-way, on/under property owned by Hidden Spring Farm LLC (formerly Robert Hamilton). The Applicant has secured an easement from Hidden Spring Farm LLC for this installation.

The connector will cross under KY 333/Big Spring Rd via an Encroachment Permit to be secured from the Kentucky Transportation Cabinet.

The connector will continue on a northerly route along the west side of the KY 333/Big Spring Rd right-of-way, on/under property owned by Gohl Brothers Properties LLC. The connector will then turn to the west, continuing on/under property owned by Gohl Brothers Properties LLC. The Applicant has secured an easement option from Gohl Brothers Properties LLC for this installation. The connector will continue on a westerly route on/under property owned by Stith Valley Company LLC. The Applicant has secured an easement option from Stith Valley Company LLC for this installation.

The connector will continue on a westerly route on/under property owned by Scott Hill Farm Ltd. Co., ultimately reaching the solar arrays on the Scott Hill Farm property. The Applicant has secured an easement from Scott Hill Farm Ltd. Co. for this installation.

Except where shallow rock formations prevent the underground installation of the connector, the connector will be installed underground.

The path, installation, operation, and maintenance of the 34.5kV connector will comply with all local, state, and federal regulations. As it will be installed primarily underground, the connector will not adversely impact any neighbors, passers-by, nor the public at large.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

16. Provide a compliance statement on the proposed underground Power feeder to POI as well as the impact on the surrounding area during construction.

Response:

The 69kV feeder connecting the Project Substation at the Stith Valley Section of the proposed project site with the POI will be installed primarily underground and primarily on private property.

The initial northerly run of the feeder exiting the Project Substation will be installed on/under property owned by the Estate of Marian W. Bennett. The Applicant has secured an easement from the Estate of Marian W. Bennett for this installation.

The feeder will then cross under KY 1238/Stith Valley Rd via an Encroachment Permit to be secured from the Kentucky Transportation Cabinet.

The feeder will continue on a northerly route to the POI on/under property owned by the Estate of Marian W. Bennett. The POI is also located on property owned by the Estate of Marian W. Bennett. The Applicant has secured an easement from the Estate of Marian W. Bennett for this installation.

Except where shallow rock formations prevent the underground installation of the feeder, the feeder will be installed underground.

The path, installation, operation, and maintenance of the 69kV feeder will comply with all local, state, and federal regulations. As it will be installed primarily underground, the feeder will not adversely impact any neighbors, passers-by, nor the public at large.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

17. Provide information on the specifications/model number of the PV cell/Solar Panel to be used.

Response:

The solar panels currently scoped for the proposed project are model TSM-500DEG18MC.20 manufactured by Trina Solar. These are monocrystalline bifacial 500watt modules.

Please see attached 'Meade County Solar PV Solar Panel Datasheet', page 2-3 of this response.

THE Vertex BIFACIAL DUAL GLASS MONOCRYSTALLINE MODULE

505W MAXIMUM POWER OUTPUT

21.0%

0~+5W

Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

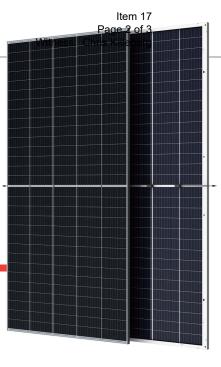
Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System





PRODUCTS TSM-DEG18MC.20(II) POWER RANGE 480-505W



High customer value



• Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time

- Lowest guaranteed first year and annual degradation; extended 30-year warranty
- Designed for compatibility with existing mainstream system components
- Higher return on Investment



High power up to 505W

- Large area cells based on 210mm silicon wafers and 1/3-cut cell technology
- Up to 21.0% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

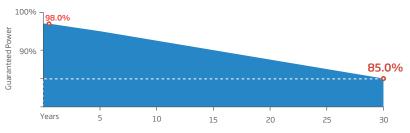
High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield

- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions
- Up to 25% additional power gain from back side depending on albedo

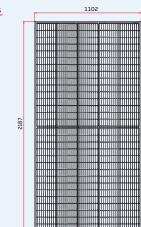
Trina Solar's Vertex Bifacial Dual Glass Performance Warranty

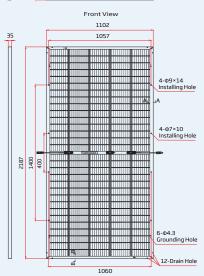




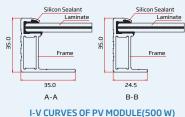
Item 17 Page 3 of 3 BIFACIAL DUAL GLASS VINEROCHTIS STILLE MODULE

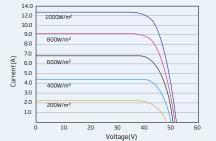
DIMENSIONS OF PV MODULE(mm)



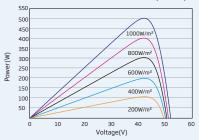


Back View





P-V CURVES OF PV MODULE(500W)



frinasolar

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	480	485	490	495	500	505
Power Tolerance-P _{MAX} (W)			0 ~	[,] +5		
Maximum Power Voltage-V _{MPP} (V)	42.2	42.5	42.8	43.1	43.4	43.7
Maximum Power Current-Impp (A)	11.38	11.42	11.45	11.49	11.53	11.56
Open Circuit Voltage-Voc (V)	50.7	50.9	51.1	51.3	51.5	51.7
Short Circuit Current-Isc (A)	11.97	12.01	12.05	12.09	12.13	12.17
Module Efficiency ηm (%)	19.9	20.1	20.3	20.5	20.7	21.0

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: $\pm 3\%.$

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

		(,,		
Total Equivalent power -PMAX (Wp)	514	519	524	530	535	540
Maximum Power Voltage-V _{MPP} (V)	42.2	42.5	42.8	43.1	43.4	43.6
Maximum Power Current-Impp (A)	12.18	12.22	12.24	12.29	12.34	12.39
Open Circuit Voltage-Voc (V)	50.7	50.9	51.1	51.3	51.5	51.7
Short Circuit Current-Isc (A)	12.81	12.85	12.89	12.94	12.98	13.02
Irradiance ratio (rear/front)			10)%		
Power Bifaciality:70±5%.						
ELECTRICAL DATA (NOCT)						
Maximum Power-P _{MAX} (Wp)	362	366	369	373	377	381
Maximum Power Voltage-V _{MPP} (V)	38.7	40.0	40.2	40.5	40.7	41.0
Maximum Power Current-I _{MPP} (A)	9.11	9.15	9.18	9.22	9.26	9.29
Open Circuit Voltage-Voc (V)	47.7	47.9	48.0	48.2	48.4	48.5
Short Circuit Current-Isc (A)	9.65	9.68	9.71	9.74	9.78	9.81

MECHANICAL DATA

PIECHANICAE DATA	
Solar Cells	Monocrystalline
No. of cells	150 cells
Module Dimensions	2187×1102×35 mm (86.10×43.39×1.38 inches)
Weight	30.1 kg (66.4 lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	35mm(1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 280/280 mm(11.02/11.02 inches) Length can be customized
Connector	MC4 EV02 / TS4*

*Please refer to regional datasheet for specified connector

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)						
Temperature Coefficient of PMAX	- 0.34%/°C						
Temperature Coefficient of Voc	- 0.25%/°C						
Temperature Coefficient of Isc	0.04%/°C						

WARRANTY

12 year Product Workmanship Warranty
30 year Power Warranty
2% first year degradation
0.45% Annual Power Attenuation
(Please refer to product warranty for details)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum SystemVoltage	1500V DC (IEC)
	1500V DC (UL)
Max Series Fuse Rating	25A

PACKAGING CONFIGURATION

Modules per box: 31 pieces

Modules per 40' container: 620 pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

18. Submit an over-all tentative schedule of the project, starting from the receival of the certificate for construction to the completion of the project. The schedule should include the length of each construction phase.

Response:

Please see attached 'Meade County Solar Tentative Construction Schedule', page 2 of

2 of this response.

MEADE COUNTY SOLAR (40MW)

Tentative Construction Schedule

				<u>2021</u>	i i	<u>2022</u>												<u>2023</u>					
				ΝΟΥ	DEC	JAN	FEB	MAR	APR	ΜΑΥ	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY JI	UN
	DAYS	START	FINISH																				
Engineering	283	11/30/21	09/08/22																				
Receive Construction Certificate	1	11/30/21	11/30/21																				
Design / Engineering	130	05/02/22	09/08/22																				
Construction Permit	30	08/10/22	09/08/22																				
Procurement	360	02/21/22	02/15/23																				
Module Procurement	360	02/21/22	02/15/23																				
Substation Procurement	250	06/01/22	02/05/23																				
Inverter Procurement	180	07/01/22	12/27/22																				
Racking Procurement	200	05/22/22	12/07/22																				
Construction	295	09/09/22	06/30/23																				
Racking and Pile Delivery	80	09/19/22	12/07/22																				
Inverter Delivery	60	10/29/22	12/27/22																				
Substation Delivery	90	11/08/22	02/05/23																				
Module Delivery	60	12/18/22	02/15/23																				
Civil / Site Prep	100	09/09/22	12/17/22																				
Pile Driving	120	09/19/22	01/16/23																				
Trenching / Excavation	90	09/23/22	12/21/22																				
Racking Installation	200	10/09/22	04/26/23																				
Collection System and Electrical Install	200	10/29/22	05/16/23																				
Substation Installation	180	11/08/22	05/06/23																				
Module Installation	140	12/18/22	05/06/23																				
Commissioning / Startup	60	05/01/23	06/29/23																				
COD	1	06/30/23	06/30/23																				

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

19. Provide information on the temporary power required for construction of the plant.

Response:

Temporary power will either be provided from generators, a temporary electrical service drop, or a combination of the two.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

20. Identify if energy storage is being used and provide SDS sheet for energy storage system.

Response:

Energy storage is not proposed for this project.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

21. Provide information on the environment impact the energy system imposes.

a. If batteries are to be used for energy storage, what is the life expectancy of the batteries?

- b. How will the batteries be disposed?
- c. Will the batteries be recycled?

Response:

Energy storage is not proposed for this project.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

22. Provide information on any fiber optic or any kind of communication network installed as part of the project and any excavation that may be required.

Response:

Fiber optic cable will connect each inverter/transformer station throughout the site and be collected in the main control center. Fiber will also connect the various relays and switches throughout the site, including those located in the substation and point of interconnection as required.

Fiber for communication with the inverter/transformer stations will be co-located in the medium-voltage transmission trenches serving those stations. Fiber for communication with relays and switches will be installed in dedicated trenches.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

23. Provide information on where the PV cells/Solar Panels are manufactured, indicating the percentage of import and percentage of Made in USA.

Response:

The currently-scoped solar panels are manufactured in China by Trina Solar. The PV cells and the assembled solar panels ultimately selected for this project may be manufactured and assembled in a variety of countries, including the USA, depending on the market for solar panels at the time of construction. Currently, however, the vast majority of solar panels and components on the market are 100% imported and 0% Made in USA.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

24. Provide the missing information/documents from the Transmission Analysis report by "Electrical Power Engineers" submitted as Exhibit 9 Attachment 9.4, page 5 of 11. Provide the spreadsheets 'Table-4 ATC Results'.

Response:

The excel spreadsheets embedded in the original transmission analysis are being uploaded separately into the electronic filing system. The title of these spreadsheets are as follows:

Attachment 24_'Meade County Solar_Transmission Analysis_Table 4 - ATC Results (POI 1)'

Attachment 24_'Meade County Solar_Transmission Analysis_Table 4 - ATC Results (POI 2)'

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

25. Provide the missing information/documents from the Transmission Analysis report by "Electrical Power Engineers" submitted as Exhibit 9 Attachment 9.4, page 6 of 11. Provide the spreadsheet in 'Table 5 Generation Projects'

Response:

The excel spreadsheet embedded in the original transmission analysis has been uploaded separately into the electronic filing system. The title of this spreadsheet is Attachment 25_'Meade County Solar_Transmission Analysis_Table 5 – Generation Projects'.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

26. Provide a compliance statement on Physical Access control as per requirements from NERC, FERC and DHS, if found applicable.

Response:

It is the Applicant's understanding that the minimum photovoltaic system capacity required to register with NERC is 75 megawatts alternating current (75 MWac). The proposed facility will have a capacity of 40 MWac and would therefore not be subject to NERC standards, including the Physical Access Control requirements.

However, NERC requirements may be triggered by several factors other than system capacity, such as the protocols of the Operations & Maintenance (O&M) contractor's network operating center or one of the major stakeholders in the project (e.g. interconnecting utility, PPA off-taker, site owner).

Should NERC compliance be required at the proposed facility for any reason, the Applicant intends to fully comply with any relevant requirements as they pertain to physical security controls, electronical access controls, cyber incident response and transient cyber assets and removable media malicious code risk mitigation.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

27. Provide information as to whether at end of life when the system is decommissioned will the area be useful for farming. If not, what guarantee will be used to bring the site back to a useful state?

Response:

The Applicant anticipates that the proposed project site will be useful for farming at the end of the project life. No topsoil will be removed from the project site. Grading of the project site in preparation for construction will be minimal. After construction, during the operating life of the project, a continuous bed of grass will be maintained within and around the facility, stabilizing and revitalizing the soil.

Each lease executed between the Applicant and each landowner of the proposed project site requires the Applicant to conduct the following decommissioning steps:

- a. remove all above-ground Solar Facility Equipment,
- b. remove all Solar Facility Equipment installed below-grade, and
- c. restore the soil surface and slope of the Leased Property to substantially similar condition as existed prior to commencement of Company's activities thereon

Each lease requires the Applicant, prior to construction of the proposed facility, to provide to the landowners an estimate of the cost, calculated by a reputable, mutually agreed upon third-party engineer, for the removal of the Solar Facility Equipment from the Leased Property. The Applicant is additionally required to post or arrange for the posting of security

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funds in a manner and amount sufficient to ensure decommissioning of the Solar Facility consistent with the decommissioning cost estimate.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

28. Provide a compliance statement on the mitigation measures to be implemented by the applicant to minimize or avoid adverse effects of the development. Reference KRS 278.708(4).

Response:

As part of Exhibit 12 to the Application, pages 12-13, Applicant suggested substantive mitigating measures to minimize or avoid adverse effects identified in the site assessment report as required by KRS 278.708(4). These mitigating measures addressed possible traffic congestion, construction and operations noise, and visual impact. Applicant confirms its intention to follow these measures during the Construction Phase and Operation Phase of the proposed project.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

29. Confirm if Parcel 131-00-00-003.1 is being used for the project.

Response:

Yes, the Applicant has entered into a Transmission Line Option and Easement Agreement with the owner of Parcel 131-00-00-003.01 for the purpose of installing, operating, and maintaining an underground medium-voltage electrical line connecting the Big Spring section of the proposed project site with the Stith Valley section of the proposed project site.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

30. Verify if all easements have been granted for this project.

Response:

The Applicant has secured options for all the easements required to cross private land for the purposes of access and/or the installation of power lines. The Applicant will secure easements and/or crossing agreements to install power lines above or below public roads, utilities, and oil, gas, or saltwater pipelines once the specific locations of those easements is determined. Those locations will be refined in the period immediately prior to construction.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

31. Provide the noise regulations referenced in Volume I, Tab 4 of the Application.

Response:

The 'Zoning Ordinance for Meade County, Kentucky' January 2013 edition does not

include any noise regulations applicable to the proposed project.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

32. Provide any Soil Conservation Plan, if available.

Response:

Please see attached 'Meade County Solar_Soil Control Plan', pages 2-10 of this response. This Soil Control Plan was submitted to Meade County Planning and Zoning as part of the Conditional Use Permit application for the proposed project.



Soil Control Plan for Proposed Meade County Solar LLC Project Meade County, Kentucky



Prepared for:

Meade County Solar LLC C/O Community Energy PO Box 17236 Chapel Hill, NC 27516

Prepared by:

Marty Marchaterre, Senior Environmental Planner Michael Tincher, Natural Resources Manager Copperhead Environmental Consulting, Inc.

11 May 2021

COPPERHEAD ENVIRONMENTAL CONSULTING, INC. P.O. BOX 73 = 471 MAIN STREET = PAINT LICK, KENTUCKY 40461 (859) 925-9012 OFFICE (859) 925-9816 FAX

www.copperheadconsulting.com

Soil Control Plan for Proposed Meade County Solar LLC Project Meade County, Kentucky

Prepared for

Meade County Solar LLC C/O Community Energy PO Box 17236 Chapel Hill, NC 27516

By:

Copperhead Environmental Consulting, Inc. PO Box 73 471 Main Street Paint Lick, KY 40461

arty

Marty Marchaterre Senior Environmental Planner

Michael Tinche

Michael Tincher Natural Resources Manager

11 May 2021

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Introduction

The Meade County Solar LLC Project ("Meade County Solar" or "Project") is a proposed solar project that will generate electricity through the use of photovoltaic (PV) solar panels. The Project will be located near Big Spring in southern Meade County (Figure 1). It will include ground-mounted solar panels, inverter boxes, transformers, a project substation, a storage/maintenance container, and overhead and underground electrical conveyance lines. The proposed project site currently consists of agricultural fields/cultivated crops, pasture, and forest/wooded land.

Meade County Ordinance 920.00, Section 4.3.7 Solar Energy Systems (SES) requires the submission of a soil control plan to the Meade County Planning and Zoning Commission when applying for Level 3 SES conditional use permit. Under Section 4.3.7.3.h., a Level 3 SES shall comply with all existing federal, state, and local environmental restrictions.

Related Federal and State Requirements

The Project will obtain a Kentucky Department of Environmental Protection Stormwater Construction General Permit ("General Permit") from the Kentucky Division of Water (KDOW). This General Permit is required for construction projects that disturb 1 or more acres of land, in compliance with the National Pollutant Discharge Elimination System (NPDES) of the Clean Water Act (CWA). The Project will also obtain a Kentucky Pollution Discharge Elimination System (KPDES) permit, KPDES No. KYR100000, which is a permit for Stormwater Discharges Associated with Construction Activity. Meade County Solar will submit a Notice of Intent to KDOW at least seven days prior to the commencement of construction and KDOW will review the Notice of Intent and provide notification of authorization to discharge. When construction is completed, Meade County Solar will provide a notice of termination.

A site-specific stormwater pollution prevention plan (SWPPP) will be prepared and a copy will be kept on site. It will outline protection measures including, but not limited to, installation of Best Management Practices (BMPs) such as silt fences, on-site temporary sediment basins, sediment traps, and/or buffer zones that will control runoff. These stormwater BMPs will minimize sediment from entering Waters of the Commonwealth and sediment migration off site during construction and prior to achievement of final vegetative stabilization. The SWPPP will be consistent with industry standards such as the University of Kentucky's *Planning and Technical Specifications Manual for Stormwater Pollution Prevention Plans* developed in coordination with KDOW (University of Kentucky 2009).

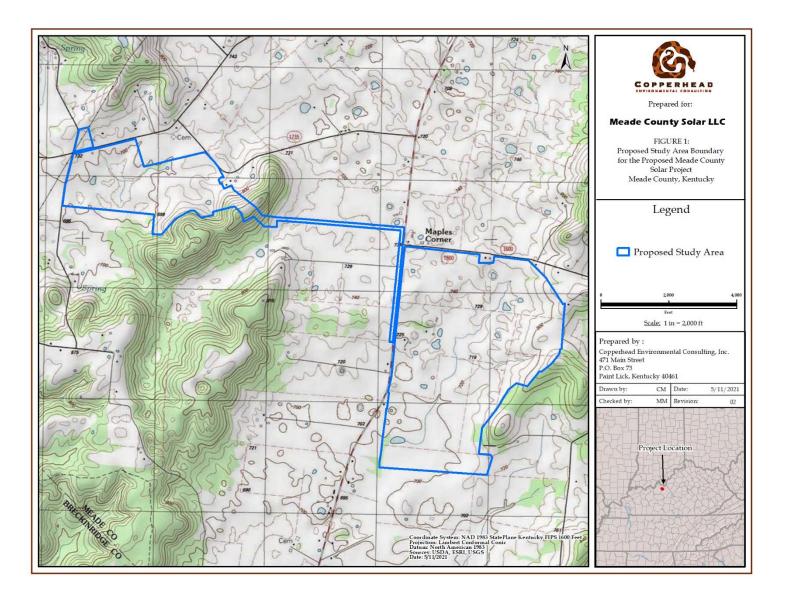


Figure 1. Project Location

Meade County Solar intends to consult with the Groundwater Section of the Watershed Management Branch of the Kentucky Energy and Environment Cabinet in regard to groundwater management practices around the karst features on the project site. Kentucky Revised Statutes (KRS) 151.110 Water Resources Policy – Duties of Cabinet and Kentucky Administrative Regulations 401 KAR 5:037 identify groundwater as an important but vulnerable natural resource of the Commonwealth and recognize the benefit of groundwater protection plans to protect groundwater resources. While a 'solar farm' is not one of the activities specifically identified in the regulations (e.g., storing bulk quantities of pesticides or fertilizer, landfills, mining), the Project will explore BMPs for groundwater protection in these sensitive areas.

Soil Control Plan During Construction

Soil and vegetation disturbance during construction may include vegetation removal, minor land grading, soil compaction, ditching for underground utilities, and the construction of access roads. These activities have the potential to increase soil loss by wind and water (Hernandez et al. 2014).

When construction is initiated, the Project area will be cleared and grubbed as necessary, retaining predevelopment drainage patterns as much as possible. Existing vegetation between the solar arrays and nearby residences will be left in place, to the extent practicable, to minimize potential soil erosion impacts. Minor grading will occur around inverter areas and the substation to divert surface drainage from these facilities.



Areas subject to rutting during construction will be temporarily stabilized with gravel or construction mats. Access aisles will be needed for construction and maintenance access points for ingress/egress. Prior to construction, these aisles will be compacted by a smooth drum or sheepsfoot roller to reduce/prevent rutting. Gravel or construction mats may be placed in high traffic or poorly draining areas during construction activities to improve access and reduce soil

erosion. The access aisles between rows of solar panels will be scarified, aerated, and re-seeded after construction. Soil conditions and final equipment selection will determine if access aisles to inverters may require gravel to support the loads associated with delivery and maintenance of the inverter equipment.

To the extent practicable, construction phasing will limit the amount of exposed soil at any given time such that the erosion prevention and sediment control BMPs can be implemented. To manage soil erosion surrounding jurisdictional streams and wetlands, use of BMPs, including silt fences, on-site temporary sediment basins, sediment traps, and/or buffer zones (e.g., 25 feet) will be implemented. A copy of the site-specific SWPPP will be kept on site. Stormwater BMPs prescribed in the SWPPP will minimize sediment from entering Waters of the Commonwealth and sediment migration off site during construction, prior to achievement of final vegetative stabilization.

Temporary stabilization is an erosion prevention BMP that prevents the mobilization of sediment. Temporary stabilization will occur in areas of exposed soils that will not be worked on within 14 days. After that timeframe, temporary erosion control BMPs, such as mulch or straw, will be placed on exposed soil on the site to prevent erosion.

Disturbed areas will be seeded after construction using a mixture of certified weed-free, lowgrowing grass and herbaceous plant seed obtained from a reputable seed dealer. Erosion control measures will be inspected and maintained until vegetation in the disturbed areas has returned to preconstruction conditions or the Project Site is stable.

Meade County Solar or a representative will inspect and maintain erosion control BMPs throughout construction and operation activities.

Soil Control Plan During Operations

During Project operation, stormwater runoff will be generated primarily from rain that falls on access roads, inverter pads, and solar panels. Vegetated groundcover under and around the solar panels, as well as around other equipment, such as the substation and inverter pads, will be maintained. Vegetation is the most effective and sustainable stormwater control due to the physical protection and stability provided by above and belowground plant biomass. It is also beneficial to reduce the overall erosion and stormwater burden by promoting infiltration and reducing overall surface runoff. This accords with traditional soil conservation principles and guidelines for protection of soils by ground cover.

Literature Cited

- Hernandez, R. R., Easter, S. B., Murphy-Mariscal, M. L., Maestre, F. T., Tavassoli, M., Allen, M. F., Ravi, S. (2014). Environmental impacts of utility-scale solar energy. Renewable and Sustainable Energy Reviews, 29, 766-779. doi:10.1016/j.rser.2013.08.041
- University of Kentucky. 2009. Best Management Practices for Controlling Erosion, Sediment and Pollutant Runoff from Construction Sites; Planning and Technical Specifications Manual for Stormwater Pollution Prevention Plans. Technology Transfer Program, Kentucky Transportation Center. Revised October 2009.
- Meade County Fiscal County. 2021. Meade County Zoning Ordinance No. 920.00, Section 4.3.7 Solar Energy Systems (SES). 2021.

RESUMES

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

33. Provide the Recommissioning Plan mentioned in the application.

Response:

Each lease executed between the Applicant and each landowner of the proposed project site requires the Applicant to conduct the following decommissioning steps:

- a. remove all above-ground Solar Facility Equipment,
- b. remove all Solar Facility Equipment installed below-grade, and
- c. restore the soil surface and slope of the Leased Property to substantially similar condition as existed prior to commencement of Company's activities thereon

Each lease requires the Applicant, prior to construction of the proposed facility, to provide to the landowners an estimate of the cost, calculated by a reputable, mutually agreed upon third-party engineer, for the removal of the Solar Facility Equipment from the Leased Property. The Applicant is additionally required to post or arrange for the posting of security funds in a manner and amount sufficient to ensure decommissioning of the Solar Facility consistent with the decommissioning cost estimate.

The proposed project is also subject to the Decommissioning requirements established in Section 4.3.7.3.i of Meade County Ordinance #2021-005 (the "Amended Solar Ordinance"). Those requirements are: "(1) The developer shall post a Surety Bond or other form of Security acceptable to the County, for the abandonment of the site and in the event the Commission must remove the facility. Abandonment shall be when the Solar Energy System ceases to transfer energy on a continuous basis for twelve (12) months. The surety bond or other form of security shall be one hundred (100) percent of a reasonable estimate submitted for the decommissioning of the project to be re-calculated every five (5) years during the project life. The cost of decommissioning will include a reasonable reduction for scrap value of the components left on the property.

(2) A decommissioning plan shall be submitted at the time of application by the developer responsible for decommissioning and must include the following:

(a) Defined conditions upon which the decommissioning will be initiated, i.e. there has been no power production for twelve (12) months, the land lease has ended, or succession of use of abandoned facility, etc.,

(b) Removal of all non-utility owned equipment, conduit, structures, fencing, roads, and foundations to the depth of three (3) feet,

(c) Restoration of the property to substantially similar physical condition that existed immediately prior to construction of the Solar Energy System,

(d) The time frame for completion of decommissioning activities,

(e) The party currently responsible for decommissioning, and

(f) Plans for updating the decommissioning plan."

At the time of application for a Construction/Building Permit for the proposed project, the Applicant will post security and submit a decommissioning plan in compliance with Section 4.3.7.3.i of the Amended Solar Ordinance.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

34. Provide any specific landscaping plans to diminish the effect of the project on local view-scapes.

Response:

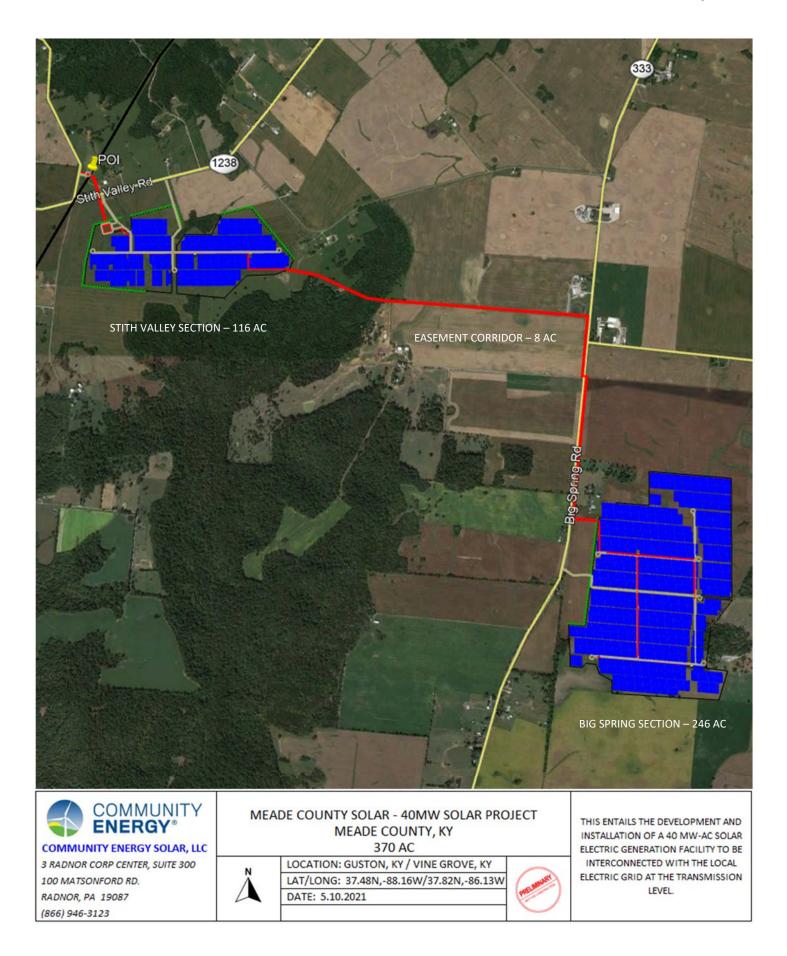
Section 4.3.7.3.d of Meade County Ordinance 2021-005 (the "Amended Solar Ordinance") reads:

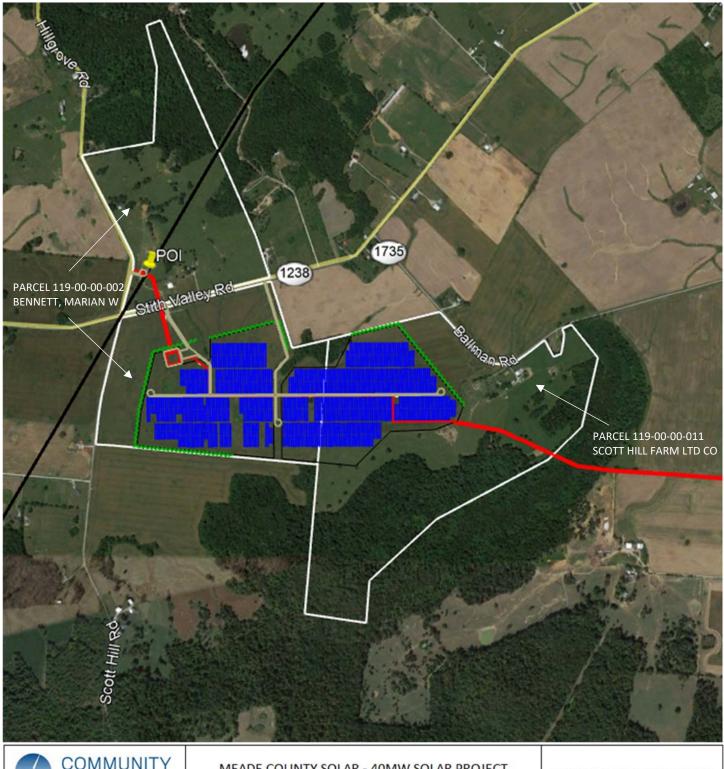
"All Level 3 SES shall be screened with a seven (7) foot tall fence and, to the extent reasonably practicable, a visual buffer that provides reasonable screening to reduce the view of the SES from residential dwelling units on adjacent lots (including those lots located across a public right of way). A vegetation screening plan to reduce the view of the SES from residential dwelling units on adjacent lots will be submitted as part of the site plan for approval of the Meade County Planning Commission. The existing natural tree growth and natural land forms along the SES perimeter may create a sufficient buffer and shall be preserved when reasonably practicable. When no alternative vegetation screening plan is approved by the Meade County Planning Commission, a double row of staggered evergreen trees will be planted 15' on center from adjacent non participating residential dwellings including the outdoor living space immediately near residential dwellings. Parcel boundaries with no proximity to residential dwellings shall not require screening. The use of barbed wire or sharp pointed

fences shall be prohibited in or along any boundary adjoining residential properties. The Meade County Planning Commission may require additional screening and/or visual buffers on a case-by-case basis."

On May 14, 2021, the Applicant submitted a Level III Solar Field Application to the Meade County Planning and Zoning Administrator, which included a Preliminary Site Plan dated May 10, 2021. The Preliminary Site Plan depicted the Applicant's proposed vegetative screening plan. This Level III Solar Field Application was approved by the Meade County Planning Commission on July 1, 2021 and approved by the Meade County Fiscal Court on July 22, 2021.

Please see attached 'Meade County Solar_Preliminary Site Plan_5-10-21, pages 2-9 of this response.





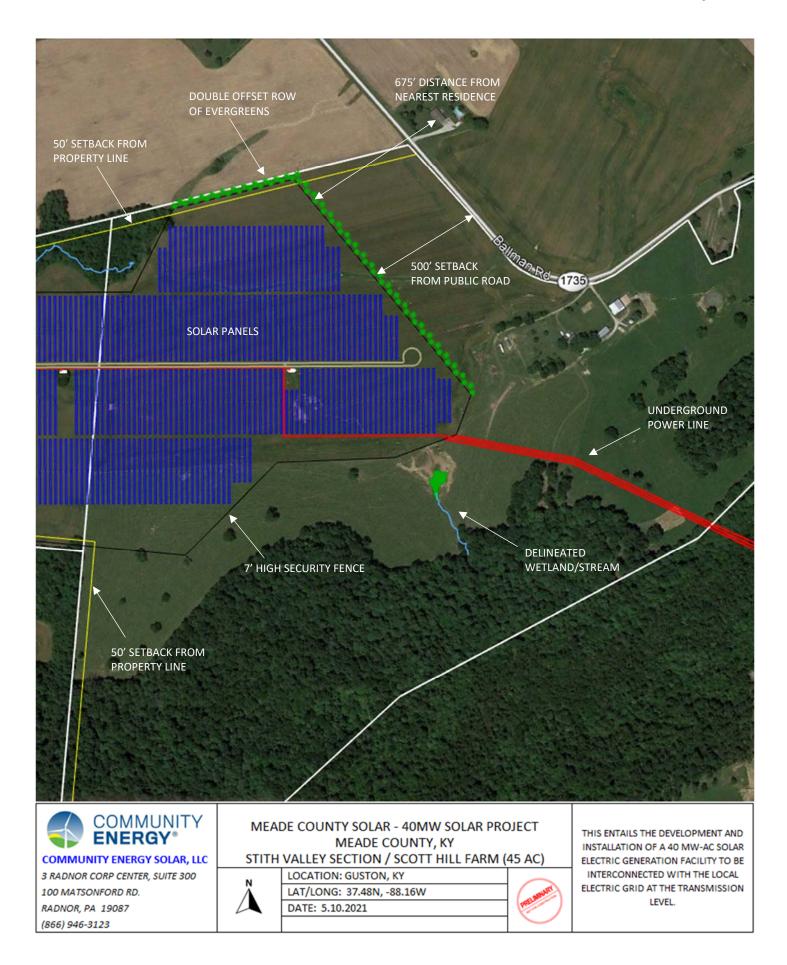


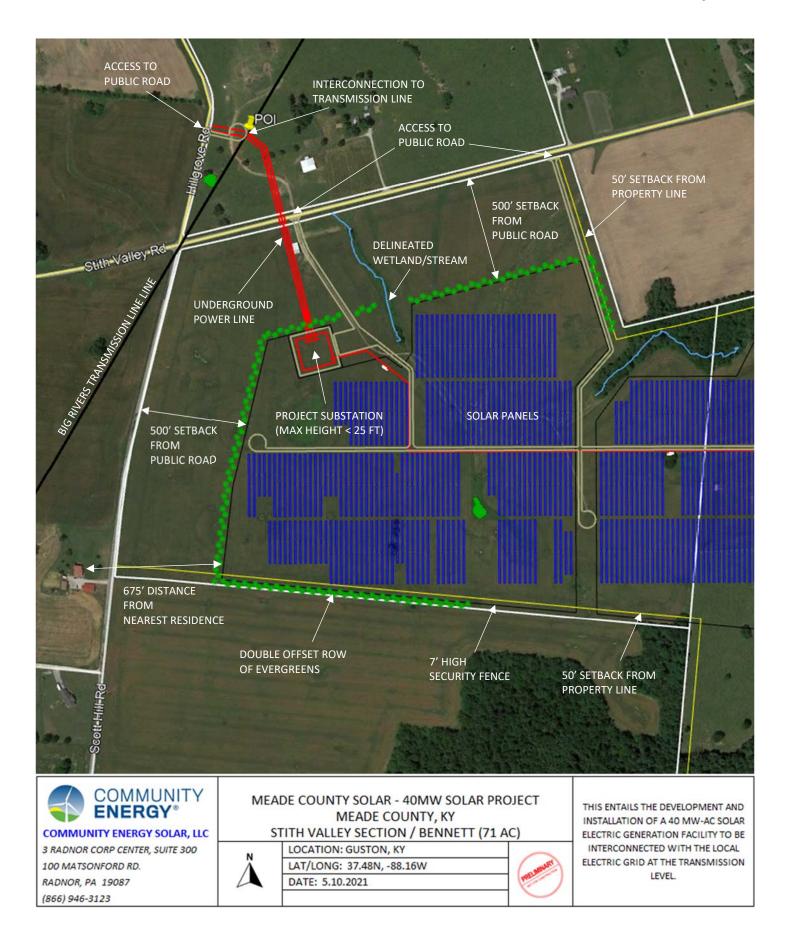
3 RADNOR CORP CENTER, SUITE 300 100 MATSONFORD RD. RADNOR, PA 19087 (866) 946-3123 MEADE COUNTY SOLAR - 40MW SOLAR PROJECT MEADE COUNTY, KY STITH VALLEY SECTION / PARCELS

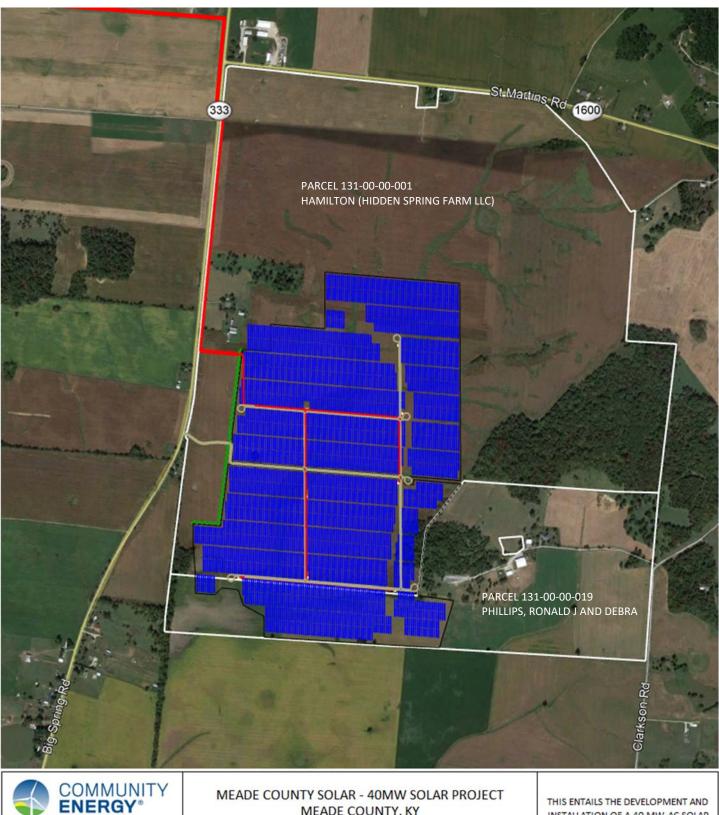
LAT/LONG: 37.48N, -88.16W DATE: 5.10.2021

Δ

THIS ENTAILS THE DEVELOPMENT AND INSTALLATION OF A 40 MW-AC SOLAR ELECTRIC GENERATION FACILITY TO BE INTERCONNECTED WITH THE LOCAL ELECTRIC GRID AT THE TRANSMISSION LEVEL.







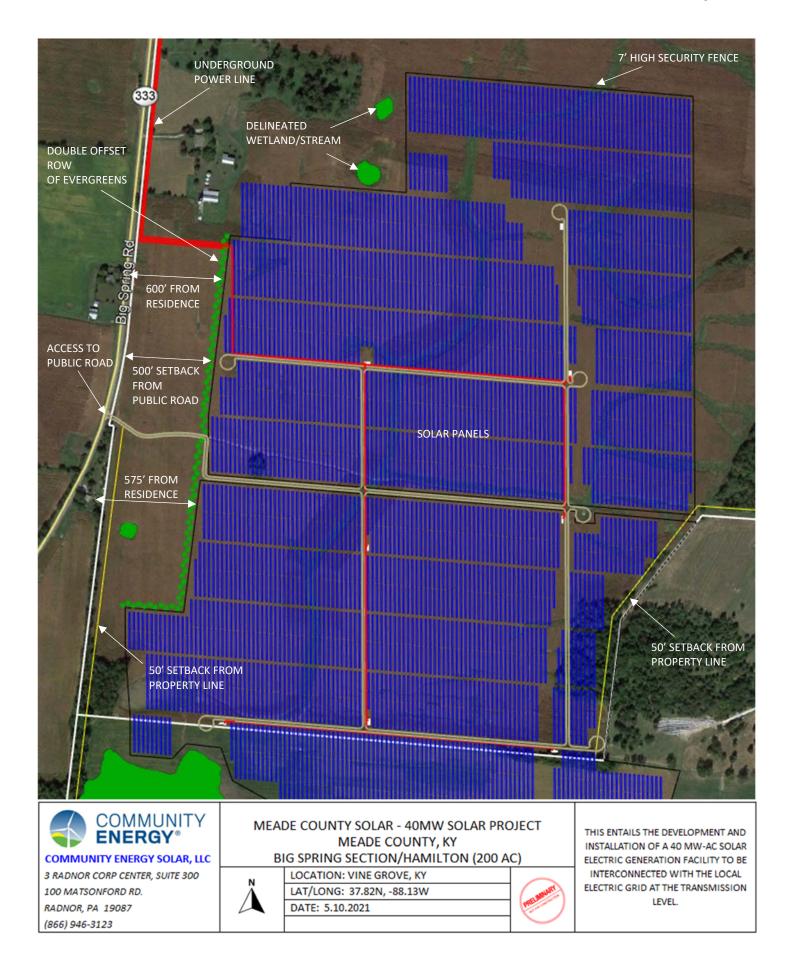
COMMUNITY ENERGY SOLAR, LLC

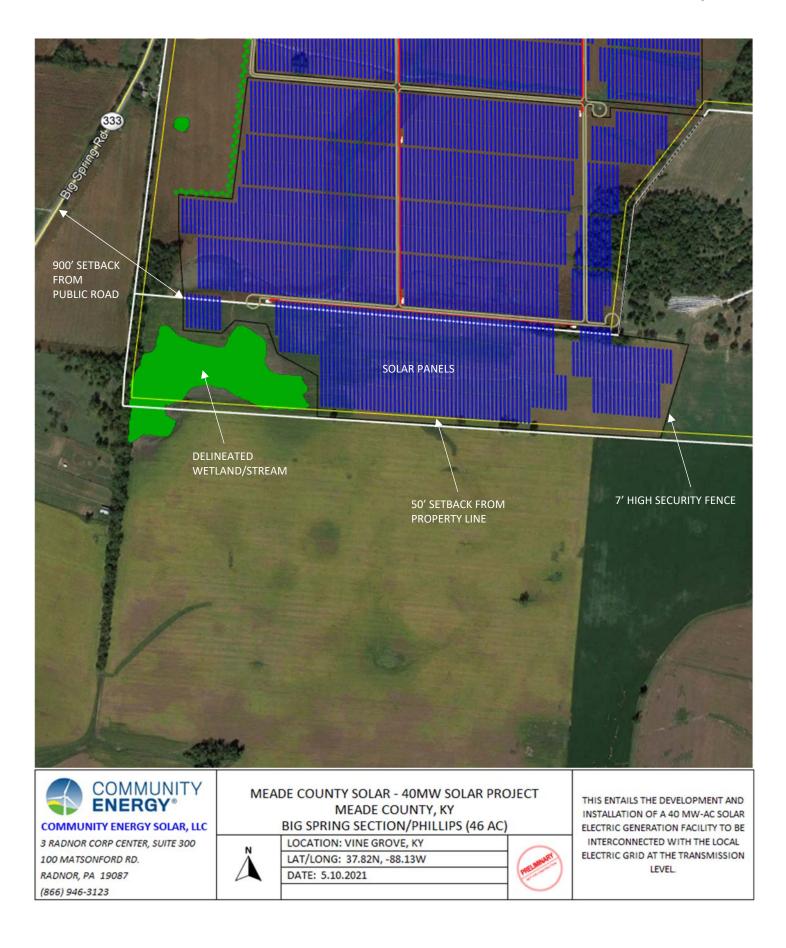
3 RADNOR CORP CENTER, SUITE 300 100 MATSONFORD RD. RADNOR, PA 19087 (866) 946-3123

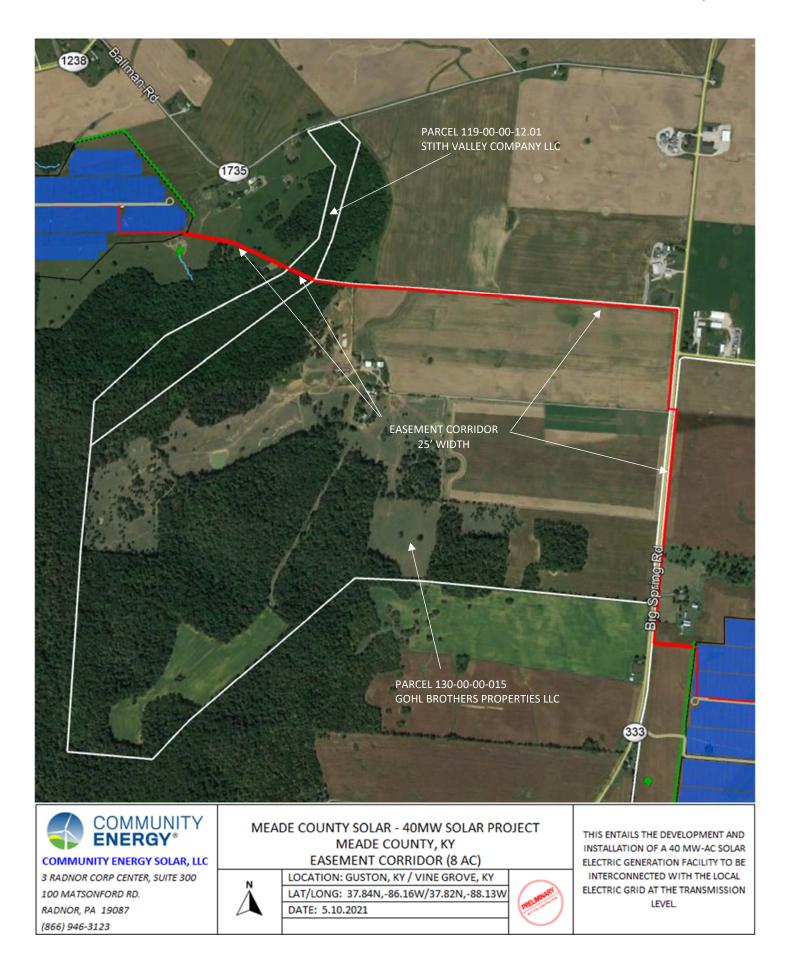
MEADE COUNTY, KY **BIG SPRING SECTION / PARCELS**

LOCATION: GUSTON, KY LAT/LONG: 37.82N, -88.13W Δ DATE: 5.10.2021

THIS ENTAILS THE DEVELOPMENT AND INSTALLATION OF A 40 MW-AC SOLAR ELECTRIC GENERATION FACILITY TO BE INTERCONNECTED WITH THE LOCAL ELECTRIC GRID AT THE TRANSMISSION LEVEL.







Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

35. Explain whether consideration has been given to the time of day when the support posts for the solar panels are installed using pile-drivers. Explain if the hours for this activity be limited to a window in the middle of the day when residents are less likely to be sleeping and/or resting

Response:

The Applicant proposes to mitigate the adverse effects of noise associated with pile driving by observing restricted hours for pile driving in close proximity to neighboring residences. The Applicant proposes the creation of 'Neighbor Zones' within which pile driving may only be conducted Monday through Friday from 9am to 5pm. Accordingly, the maximum sound level at the nearest neighboring residences associated with pile driving will occur during hours when residents are more likely to be away from home for work or errands, and less likely to be at home, in the yard, etc.

The proposed Neighbor Zones will be the first 300 feet of those areas of the project site closest to neighboring residences. The periphery of the project site is already set at a minimum distance of 500 feet from any neighboring residence. Accordingly, the Neighbor Zones will include all areas of the project site within 800 feet of any neighboring residences.

The distance of 800 feet was selected because, at that distance, the sound level created by pile driving will have attenuated to just below 60 dBA. This is just below the range of 60 dBA - 70 dBA, generally described as "Normal speech at a distance of 3 feet." The Applicant submits that a sound level below 60 dBA is neither un-safe nor an undue burden on neighbors, and pile driving <u>outside</u> of the Neighbor Zones may occur outside of the hours of Mon-Fri 9am-5pm without posing a nuisance.

Even the sound levels associated with pile driving conducted <u>within</u> the Neighbor Zones will be modest. At the closest neighboring residence, approximately 500 feet from the nearest pile driving location, the sound created by pile driving will have attenuated to a level of approximately 64 dBA. Accordingly, the sound level resulting from pile driving <u>within</u> Neighbor Zones, will range from 60 dBA – 64 dBA, at the low end of the sound range described as "Normal speech at a distance of 3 feet."

Please see 'Meade County Solar_Maps of Neighbor Zones', attached as pages 3 and 4 of the response to Item 8 above.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

36. Provide information on how noise created by the development of construction roads will be mitigated.

Response:

The Applicant intends to utilize existing entrances to each section of the proposed project site as construction entrances. As such, only minor improvements to these roads will be required, and any noise created by their development will be temporary. The Applicant submits that no mitigation of the noise associated with these minor improvements is necessary other than the observance of the proposed general limits on construction activity to the hours of 7am ET to 7pm ET, Monday through Saturday.

The development of roads <u>internal</u> to the proposed project site may require more extensive grading, etc. However, this activity will take place at least 500 feet from any neighboring residences. Per the FHWA Construction Noise Handbook, August 2006, cited in Table 3 of the Acoustical Analysis performed for the proposed project, the equipment used for road construction, typically front-end loaders, dump trucks, dozers, and graders, generate noise levels no greater than 85 dBA at a distance of 50 feet. At a distance of 500 feet this sound level will have attenuated to 65 dBA, at the middle of the range of 60 dBA – 70 dBA, generally described as "Normal speech at a distance of 3 feet." As this equipment moves farther into the interior of the project site, at increasingly greater distances from neighboring residences, the noise level will attenuate further. The Applicant submits that no mitigation of the noise

Item 35 Page 2 of 2 Witness: Chris Killenberg

associated with the development of internal roads is necessary other than the observance of the proposed general limits on construction activity to the hours of 7am ET to 7pm ET, Monday through Saturday.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

37. Explain how the conclusion was reached that "there will be no adverse impacts on traffic operation in and around the site," given that the design seems to indicate potential road closures.

Response:

Section 2.5 of the Traffic Study reads:

"Permanent road or lane closures are not anticipated for the construction of the solar facility. Construction of the facility is not expected to impact roads, but safety precautions including signage, signaling, flagmen, and temporary lane closures may be utilized <u>as needed</u> (emphasis added). For example, during a delivery, flagmen may be used to <u>temporarily</u> (emphasis added) stop traffic to allow the delivery driver to turn into the facility safely, with signage used to warn oncoming traffic of the lane closure."

The Applicant submits that, given the "as needed" and "temporary" nature of such lane

closures, this stoppage of traffic does not rise to the level of a materially adverse impact on

traffic operation in and around the site, and is no different from similar activities associated

with road maintenance and construction routinely encountered by motorists.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

38. Provide when the SPCC Plan will be submitted regarding the storage of hazardous Materials during construction.

Response:

The Spill Prevention, Control, and Countermeasure (SPCC) Plan will be submitted at

the time of the application to Meade County for a Construction/Building Permit.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

39. Provide whether the Army Corps of Engineers has responded to the AJD.

Response:

At this time, the United States Army Corps of Engineers Louisville District (USACE) is still reviewing the Approved Jurisdictional Determination request. Upon receipt of the USACE response, this information will be provided to the Siting Board.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

40. Explain whether any further follow-up is required regarding the four "off-site" properties eligible for inclusion on the National Register of Historic Places.

Response:

Currently, no federal or state laws and/or regulations require follow-up in regard to the four "off-site" properties eligible for inclusion on the National Register of Historic Places.

The Kentucky Antiquities Act (KRS 164.705-KRS 164.735; KRS 164.990) does not apply, as the solar project is a private activity on private lands. The Kentucky Antiquities Act affects archaeological sites or objects of antiquity (e.g., ruins, monuments, relics, bone deposits, artifacts or any product of human workmanship of Indians or any aboriginal race or pioneers) on lands owned by the state or a municipality.

In addition, Meade County Solar does not anticipate triggering a federal nexus (i.e., federal permit, approval, or funding) that would trigger Section 106 of the National Historic Preservation Act (NHPA)(16 U.S.C. §470f). Section 106 would require a review of potential effects on historic resources. At this time, the Applicant does not anticipate requiring a Nationwide Permit for the purpose of crossing a jurisdictional stream or affecting a jurisdictional wetland. However, if such a need arises, the Applicant's consultation with the US Army Corps of Engineers and the Kentucky Heritage Council (State Historic Preservation Office) will include a review of historic properties under Section 106 of the NHPA.

Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

41. Explain whether specific mitigation measures will be implemented for the three Federally Listed bat species (Gray Bat, Indiana Bat, and Northern Long-eared Bat) that have a potential to occur within the Project Study Area.

Response:

A Threatened and Endangered Species Habitat Assessment ("T&E Assessment") of the proposed Project site was performed by Copperhead Environmental Consulting, Inc. ("Copperhead").

According to the T&E Assessment, during the spring, summer, and fall, the Indiana Bat and the Northern Long-Eared Bat use a variety of forested habitats for roosting, foraging, and commuting, including forest blocks and woodlots, as well as linear features such as fencerows, riparian forests, and other wooded corridors. Copperhead's desktop analysis of the proposed Project site identifies approximately 21.5 acres of wooded land as well as stream corridors that could potentially provide suitable roosting and foraging habitat for Indiana Bats and Northern Long-Eared Bats.

To avoid any effect on the Indiana Bat and the Northern Long-Eared Bat during the spring, summer, and fall, the Applicant proposes a Winter Tree Clearing Coordination plan. The Applicant will adhere to seasonal tree clearing restrictions, only clearing trees on the project site during the period 15 November – 31 March. Prior to any such winter tree clearing, the Applicant will coordinate with the US Fish and Wildlife Service (USFWS) and the

Kentucky Department of Fish and Wildlife Resources (KDFWR) for documentation of compliance and approval.

According to the T&E Assessment, during the winter months, Indiana Bats and Northern Long-Eared Bats roost in underground hibernacula typically consisting of caves or cave-like locations, including abandoned mines and under bridges. The Gray Bat typically roosts in caves year-round. Copperhead's field reconnaissance of the proposed Project site did not identify any caves or mine openings. However, karst topography and several sink holes were present on the site at the time of the site reconnaissance.

To avoid any effect on the Indiana Bat and the Northern Long-Eared Bat during the the winter, and to avoid any effect on the Gray Bat year-round, the Applicant proposes to observe a minimum 70-foot setback from the open throat of any sinkholes on the proposed Project site. This setback aligns with Meade County groundwater regulations, which were adopted from the Kentucky On-site Sewage Disposal Systems Regulation – 902 KAR 10:085.

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Meade County Solar, LLC Case No. 2020-00390 Siting Board Staff's First Request for Information

42. Explain how any impacts on the potential jurisdictional wetland in the Project Study Area will be mitigated.

Response:

The Applicant intends to avoid any encroachment on any jurisdictional wetlands on

the proposed project site.