

Turkey Creek Solar, LLC
Kentucky State Board on Electric
Generation and Transmission Application

Site Assessment Report

Case No. 2020-00040

March 2020



**APPLICATION OF TURKEY CREEK SOLAR, LLC
FOR A CONSTRUCTION CERTIFICATE TO CONSTRUCT A
MERCHANT ELECTRIC GENERATING FACILITY
GARRARD COUNTY, KENTUCKY
CASE NO. 2020-00040**

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 KRS 278.706(2)(1)
 Persons Responsible: Carson Harkrader

EXHIBITS

- A. Property Value Impact Report
- B. Legal Description of Site
- C. Noise and Traffic Study
- D. Environmental Site Assessment – Phase 1
- E. Preliminary Site Layout

1. Description of Proposed Site

REQUIREMENT: per KRS 278.708 (3)(a); *A description of the proposed facility that shall include a proposed site development plan that describes:*

- 1. Surrounding land uses for residential, commercial, agricultural, and recreational purposes;*
- 2. The legal boundaries of the proposed site;*
- 3. Proposed access control to the site;*
- 4. The location of facility buildings, transmission lines, and other structures;*
- 5. Location and use of access ways, internal roads, and railways;*
- 6. Existing or proposed utilities to service the facility;*
- 7. Compliance with applicable setback requirements as provided under KRS 278.704(2), (3), (4), or (5); and*
- 8. Evaluation of the noise levels expected to be produced by the facility*

COMPLIANCE: The proposed Turkey Creek Solar Facility (the Project) will be a 50 megawatt alternating current (MWac) photovoltaic electricity generation facility. The project is to be located in Garrard County, South of Lancaster, KY, along State Road 39. The power generated by the project will be transported on the existing transmission line infrastructure that crosses the property.

The project will be situated on up to 520 acres which has historically been used as pasture land. The equipment onsite will consist of crystalline solar panels, inverters, a substation transformer, and an associated wiring and balance of system.

The racking system has a small footprint that does not use any concrete, and the panels are not considered impervious as rainwater can travel over and around the panels, making this a low impact development. A fence meeting national electrical code requirements, typically a six-foot fence with three strings of barbed wire at the top, will enclose the facility. Where there are potential visual impacts created by the facility, a vegetative buffer will be planted. The vegetative buffer, where applicable, will consist of two staggered rows of evergreen shrubs at least three feet in height at time of planting.

1. A detailed description of the surrounding land uses is identified in the Impact Study conducted by Kirkland Appraisals, LLC, and attached as Attachment A. A summary of the surrounding land use is contained in the chart below

	Acreage	Parcels
Residential	7.32%	56.10%
Agricultural	35.97%	12.20%
Agri/Res	51.30%	12.20%
Lodge	0.07%	2.44%
Fire Dept	0.15%	2.44%
Commercial	0.16%	.44%
Industrial	5.03%	12.20%

1. Attachment B contains the boundary survey, as well as the legal description of the proposed site.
2. The proposed facility layout is located in Attachment E. The layout shows the proposed access to the site. Please note, the property boundary includes an additional entrance not included in the layout. This additional entrance was discovered during the property boundary survey.
3. The Garrard County–Tommy Gooch 69kv transmission line would serve the facility and carry power generated by the Project. At this time, it is not anticipated that the Project will need to receive external utility services during typical plant operation.
4. The applicable setback requirements are identified in the Map of Surrounding Residential Neighborhoods that is Attachment A in Volume I of the application. Turkey Creek will seek a deviation from the setback requirements.
5. Attachment C is the report showing noise levels expected to be produced by the facility. It indicates that “[P]eriodic noise associated with the solar panel tracking system and the relatively constant noise of inverters will occur during operation. This increase in noise is also negligible due to the distance of noise generating solar equipment from the nearest noise receptor and the implementation of two rows of evergreen shrubbery. The noise produced by the inverters is 67.0 dBA, which is slightly above that of a typical person-to-person conversation (i.e., 60.0), and will not be a contributor of noise to the nearest receptor (i.e., single-family home) located at 626 feet away with a planted buffer and a strip of trees between the source and receptor.”

2. Compatibility with Scenic Surroundings

REQUIREMENT: per KRS 278.708 (3)(b); *An evaluation of the compatibility of the facility with scenic surroundings*

COMPLIANCE:

Please refer to Sections III-VI from Attachment G which address appropriate setbacks, topography, harmony of use, and compatibility in detail.

An excerpt from Section IV, page 102, reads as follows:

“[L]arger solar farms using fixed or tracking panels are a passive use of the land that is in keeping with a rural/residential area. . . . The solar panels are all less than 15 feet high, which means that the visual impact of the solar panels will be similar in height to a typical greenhouse and lower than a single story residential dwelling. Were the subject property developed with single family housing, that development would have a much greater visual impact on the surrounding area given that a two-story home with attic could be three to four times as high as these proposed panels.”

The property where the Project is located is at a raised elevation to the surrounding rural agricultural and residential properties, which shields the Project from the view of most of its neighbors. As noted in Section 6 of the Siting Board Application, representatives from Carolina Solar Energy have met personally on various occasions with two adjoining landowners to address their concerns, which they voiced to us at the neighborhood dinner, about the viewsheds from their particular properties. These neighbors have had input in the placement of some of the visual buffers associated with the facility.

Sections of the Project that adjoin roadways and other properties will have a vegetative buffer planted if one does not already exist. This buffer will consist of two staggered rows of evergreen shrubs, approximately 15 feet wide and at least three feet in height at time of planting. See the site plan, Attachment E, for the planned locations of the buffer.

3. Property Value Impacts

REQUIREMENT: per KRS 278.708 (3)(c); *The potential changes in property values and land use resulting from the siting, construction, and operation of the proposed facility for property owners adjacent to the facility*

COMPLIANCE: See Attachment A for a report studying potential property value impacts to owners adjacent to the proposed facility by a certified real estate appraiser. The conclusion of the report, Section VII on page 103, reads as follows:

“The matched pair analysis shows no impact in home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all indicate that a solar farm is a compatible use for rural/residential transition areas and that it would function in a harmonious manner with this area.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial injury to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved adjoining agricultural uses, schools, churches, and residential developments. Industrial uses rarely absorb negative impacts from adjoining uses.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no impact on the value of adjoining or abutting property and that the proposed use is in harmony with the area in which it is located. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it’s quiet, and there is no traffic.”

4. Anticipated Noise Levels at Property Boundary

REQUIREMENT: per KRS 278.708 (3)(d); *Evaluation of anticipated peak and average noise levels associated with the facility's construction and operation at the property boundary*

COMPLIANCE: See Attachment C for a report studying the anticipated peak and average noise levels associated with the facility's construction and operation at the property boundary. See the excerpt below for a brief summary, found on pages 5-6 of Attachment C.

“Noise during the construction phase is expected to temporarily increase during daylight hours, and will be in the form of heavy equipment, passenger cars and trucks, and tool use during assembly of the solar facilities. Noise will be present on the project site during construction; however, due to the size of the project site and the distance to the nearest receptors, construction will not contribute to a significant noise increase when compared to noise currently occurring on site (i.e., the operation of farming equipment for livestock, hay production, and crop harvesting). In addition, periodic noise associated with the solar panel tracking system and the relatively constant noise of inverters will occur during operation. This increase in noise is also negligible due to the distance of noise generating solar equipment from the nearest noise receptor and the implementation of two rows of evergreen shrubbery. The noise produced by the inverters is 67.0 dBA, which is slightly above that of a typical person-to-person conversation (i.e., 60.0), and will not be a contributor of noise to the nearest receptor (i.e., single-family home) located at 626 feet away with a planted buffer and a strip of trees between the source and receptor. Site visits and maintenance activities, such as mowing, will take place during daylight hours and will not significantly contribute to noise. The noise associated with these activities is very similar to those currently generated onsite by farming activities and offsite by commercial and farm uses. All construction, operation, and maintenance activities will take place in daylight hours and within the Garrard County Noise Control Ordinance requirements (i.e., between 6am and 11pm).”

5. Effect on Road, Railways, and Fugitive Dust

REQUIREMENT: per KRS 278.708 (3)(e); *The impact of the facility's operation on road and rail traffic to and within the facility, including anticipated levels of fugitive dust created by the traffic and any anticipated degradation of roads and lands in the vicinity of the facility*

COMPLIANCE: See Attachment C for a report on the Project's impact on road and rail traffic, and anticipated levels of fugitive dust created by the traffic and degradation of roads caused by traffic created by the Project. See below for a brief summary of the report, page 8.

"Traffic in the project vicinity is predicted to increase temporarily during the construction phase of the project. This includes daily morning and evening peaks for construction laborers entering and exiting the project site and periodic delivery of construction materials and equipment. Appropriate signage and traffic directing will occur as necessary to increase driver safety and reduce risk of collisions for approaching traffic. There are not anticipated damages to the existing roadway infrastructure. For facility operation and maintenance, there is no significant increase in traffic (i.e., the expected traffic to be contributed to the area will be less than a typical single-family home)."

"Land disturbing activities associated with the proposed project may temporarily contribute to airborne materials. To reduce wind erosion of recently disturbed areas, appropriate revegetation measures, application of water, or covering of spoil piles may occur. In addition, any open-bodied truck transporting dirt will be covered when the vehicle is in motion. The size of the project site, distance to nearby structures and roadways, combined with vegetated buffers along the property boundaries and fencerows will aid in managing off-site dust impacts. Internal roads will be compacted gravel, which may result in an increase in airborne dust particles during dry conditioned and internal road traffic is heavy. During construction activities water may be applied to internal road system to reduce dust generation. Water used for dust control is authorized under the Kentucky Pollutant Discharge Elimination System (KPDES) as a non-stormwater discharge activity, which will be required for the proposed project."

The Project will not be using railways for any construction or operation activities.

6. Mitigation Measures

REQUIREMENT: per KRS 278.708(4); *The site assessment report shall also suggest any mitigating measures to be implemented by the applicant to minimize or avoid adverse effects identified in the site assessment report; and per KRS 278.708(6); The applicant shall be given the opportunity to present evidence to the board regarding any mitigation measures. As a condition of approval for an application to obtain a construction certificate, the board may require the implementation of any mitigation measures that the board deems appropriate.*

COMPLIANCE: Specific of mitigation measures are listed below.

1. Planting of native evergreen species as a visual buffer to mitigate viewshed impacts. Plantings to primarily be in areas directly adjacent to the Project without existing vegetation; see Attachment E for anticipated planting areas and the specifics of the plantings. Members of the development team have been meeting with neighbors to discuss specific viewshed concerns.
2. Cultivation of at least 2 acres of native pollinator-friendly species onsite; see Attachment E for anticipated pollinator area.
3. Turkey Creek Solar had an Environmental Site Assessment (ESA) Phase 1 completed for the site. See Attachment D for the results of this study.

The regulation and permitting of utility scale solar impacts to wetlands, waters of the US, and stormwater will be addressed separately to this Siting Board application, and are as follows. Turkey Creek Solar, LLC has engaged Copperhead Environmental Consulting, Inc., a 20-person environmental engineering company based in Garrard County, KY, to perform an on-site wetlands delineation (which is in progress) and an Approved Jurisdictional Determination (AJD) application. Other permit applications will follow to the appropriate regulatory body as described below, as the project prepares for construction.

1. Stormwater Discharges Associate with Construction Activity

Regulatory Agency: Kentucky Energy & Environment Cabinet – Department for Environmental Protection – Division of Water (DOW)

The Project will obtain a Kentucky Department of Environmental Protection Stormwater Construction General Permit (Permit) from the Kentucky DOW for construction projects that disturb one or more acres of land in compliance with the National Pollutant Discharge Elimination System (NPDES) of the Clean Water Act (CWA). The Kentucky Pollution Discharge Elimination System (KPDES) permit (KPDES No: KYR100000) is a General Permit for Stormwater Discharges Associated with Construction Activity.

2. Wetlands and Waters of the United States

Federal Regulatory Agency: United States Army Corps of Engineers – Louisville District

An Approved Jurisdictional Determination (AJD) will be requested through the U.S. Army Corps of Engineers (USACE) – Louisville District. The AJD process will include the USACE Louisville District determining which aquatic features are considered federally jurisdictional under the Clean Water Act (CWA). If project design proposes to impact aquatic features, features that are deemed federally jurisdictional, a Section 404 of the CWA permit will be needed from the USACE.

The type of USACE permit required will depend on amount of impact (e.g., acres or linear feet) to jurisdictional wetlands and/or Waters of the US. If the proposed activity has minimal impacts, it may be authorized under a Nationwide Permit. If Project impacts exceed threshold requirements of the Nationwide Permits, an Individual Permit may be necessary.

Kentucky Regulatory Agency: Kentucky Energy & Environment Cabinet – Department for Environmental Protection – Division of Water Division of Water

Depending on Project impacts and type of Section 404 permit necessary (discussed above), a Section 401 Water Quality Certification may be needed.

An applicant seeking a Section 401 Water Quality Certification must submit an Application for Permit to Construct Across or Along a Stream and/or Water Quality Certification to the Division of Water (DOW). DOW reviews projects jointly for potential impacts to water and floodplains. Projects proposing to minimally affect waters of the State may be authorized under General Certifications of USACE Nationwide Permits. General Certifications may include impact thresholds and specific conditions for the proposed activity. If the proposed activity qualifies for coverage under the Nationwide Permit and the corresponding General Certification, an applicant does not need anything from DOW. An applicant can request a letter from DOW that the project meets the requirements of a Nationwide Permit. An Individual Water Quality Certification is required if the activity does not qualify for General Certification.



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March 4, 2020

Carson Harkrader
Carolina Solar Energy
400 West Main Street, Suite 503
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RE: Turkey Creek Solar Impact Study, Garrard County, KY

Ms. Harkrader

At your request, I have considered the impact of a solar farm proposed to be constructed on approximately 297.05 acres out of a parent tract assemblage of 752.80 acres located on KY 39 Highway, Lancaster, Kentucky. Specifically, I have been asked to give my professional opinion on whether the proposed solar farm will have any impact on adjoining property value and whether “the location and character of the use, if developed according to the plan as submitted and approved, will be in harmony with the area in which it is to be located.”

To form an opinion on these issues, I have researched and visited existing and proposed solar farms in Kentucky as well as other states, researched articles through the Appraisal Institute and other studies, and discussed the likely impact with other real estate professionals. I have not been asked to assign any value to any specific property.

This letter is a limited report of a real property appraisal consulting assignment and subject to the limiting conditions attached to this letter. My client is Carolina Solar Energy represented to me by Carson Harkrader. My findings support the Kentucky Siting Board Application. The effective date of this consultation is March 4, 2020.

While based in NC, I am also a Kentucky State Certified General Appraiser #5522.

Standards and Methodology

I conducted this analysis using the standards and practices established by the Kentucky Appraisal Board, the Appraisal Institute, and that conform to the Uniform Standards of Professional Appraisal Practice. The analyses and methodologies contained in this report are accepted by all major lending institutions, and they are used in Kentucky and across the country as the industry standard by certified appraisers conducting appraisals, market analyses, or impact studies and are considered adequate to form an opinion of the impact of a land use on neighboring properties. These standards and practices have also been accepted by the courts at the trial and appellate levels and by federal courts throughout the country as adequate to reach conclusions about the likely impact a use will have on adjoining or abutting properties.

The aforementioned standards compare property uses in the same market and generally within the same calendar year so that fluctuating markets do not alter study results. Although these standards do not require a linear study that examines adjoining property values before and after a new use (e.g. a solar farm) is developed, some of these studies do in fact employ this type of analysis. Comparative studies, as used in this report, are considered an industry standard.

Determining what is an External Obsolescence

An external obsolescence is a use of property that, because of its characteristics, might have a negative impact on the value of adjacent or nearby properties because of identifiable impacts. Determining whether a use would be considered an external obsolescence requires a study that isolates that use, eliminates any other causing factors, and then studies the sales of nearby versus distant comparable properties. The presence of one or a combination of key factors does not mean the use will be an external obsolescence, but a combination of these factors tend to be present when market data reflects that a use is an external obsolescence.

External obsolescence is evaluated by appraisers based on several factors. These factors include but are not limited to:

- 1) Traffic. Solar Farms are not traffic generators.
- 2) Odor. Solar farms do not produce odor.
- 3) Noise. Solar farms generate no noise concerns and are silent at night.
- 4) Environmental. Solar farms do not produce toxic or hazardous waste. NCDEQ does not consider the panels to be impervious surfaces that impede groundwater absorption or cause runoff.
- 5) Other factors. I have observed and studied many solar farms and have never observed any characteristic about such facilities that prevents or impedes neighbor from fully using their homes or farms or businesses for the use intended.

Proposed Use Description

The proposed solar farm is to be constructed on approximately 297.05 acres out of a parent tract assemblage of 752.80 acres located on KY 39 Highway, Lancaster, Kentucky. Adjoining land is a mix of residential and agricultural uses.

Adjoining Properties

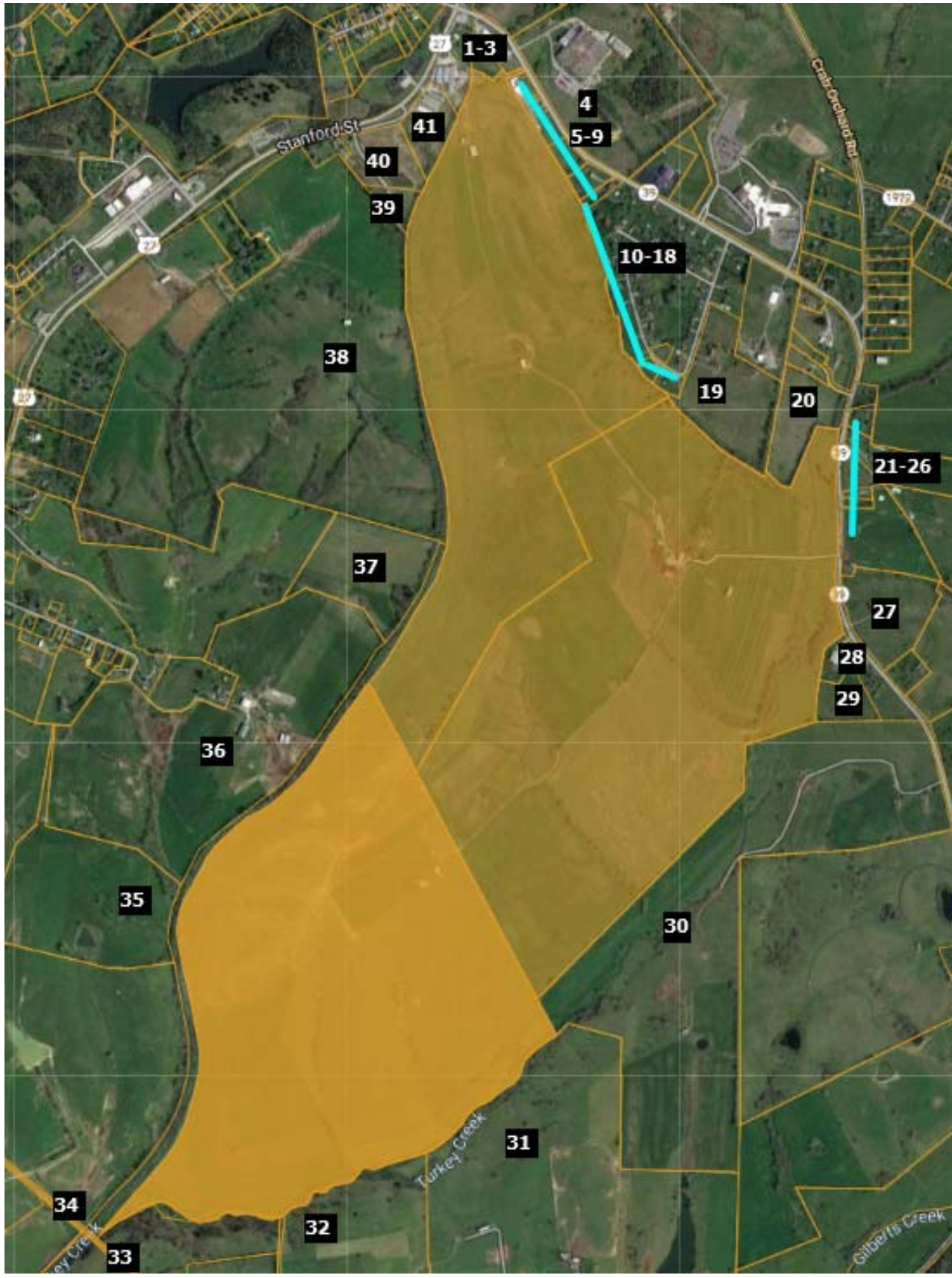
I have considered adjoining uses and included a map to identify each parcel's location. The closest home is 240 feet away and the average distance to adjoining homes is 976 feet. Matched pairs that I have researched show no impact for distances as close as 125 feet.

Garrard County High School and Lancaster First Assembly are located in the vicinity. Schools and churches are commonly located in proximity to solar farms as illustrated later in this report.

The breakdown of those uses by acreage and number of parcels is summarized below.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	7.32%	56.10%
Agricultural	35.97%	12.20%
Agri/Res	51.30%	12.20%
Lodge	0.07%	2.44%
Fire Dept	0.15%	2.44%
Commercial	0.16%	2.44%
Industrial	5.03%	12.20%
Total	100.00%	100.00%



Surrounding Uses

#	MAP ID	Owner	GIS Data		Adjoin	Adjoin	Distance (ft)
			Acres	Present Use	Acres	Parcels	Home/Panel
1		Unknown	2.63	Industrial	0.22%	2.44%	N/A
2	2809601	Moss	1.70	Residential	0.14%	2.44%	N/A
3		Unknown	2.35	Industrial	0.19%	2.44%	N/A
4	28116	Allison	47.10	Industrial	3.89%	2.44%	N/A
5	28097	D1 Fire	1.80	Fire Dept	0.15%	2.44%	885
6		Unknown	1.73	Residential	0.14%	2.44%	N/A
7	28100	D1 Fire	1.70	Residential	0.14%	2.44%	N/A
8	28101	Broadcasting	1.90	Commercial	0.16%	2.44%	N/A
9	28102	Masonic	0.90	Lodge	0.07%	2.44%	N/A
10	28C01018	Unknown	1.60	Residential	0.13%	2.44%	270
11	28C01019	Unknown	0.43	Residential	0.04%	2.44%	255
12	28C01022	Unknown	1.09	Residential	0.09%	2.44%	245
13	28C01023	Unknown	0.63	Residential	0.05%	2.44%	240
14	28C01025	Unknown	1.52	Residential	0.13%	2.44%	250
15		Unknown	0.68	Residential	0.06%	2.44%	400
16	28C01028	Unknown	0.94	Residential	0.08%	2.44%	500
17	28C01030	Hopkins	0.69	Residential	0.06%	2.44%	765
18	28C01031	Best	1.30	Residential	0.11%	2.44%	840
19	28C03004	Rich	20.80	Agri/Res	1.72%	2.44%	1,120
20	28C0300603	Rich	10.90	Residential	0.90%	2.44%	N/A
21	03578	Carpenter	1.30	Residential	0.11%	2.44%	1,125
22	357901	Carpenter	16.50	Residential	1.36%	2.44%	820
23		Unknown	2.66	Residential	0.22%	2.44%	N/A
24	28113	Tirey	0.60	Residential	0.05%	2.44%	N/A
25	28112	Tirey	0.60	Residential	0.05%	2.44%	570
26	28111	Tirey	11.80	Residential	0.98%	2.44%	N/A
27	2811001	Kinnaird	14.00	Residential	1.16%	2.44%	770
28	2810402	Crouch	2.50	Industrial	0.21%	2.44%	N/A
29	2810401	Crouch	5.40	Residential	0.45%	2.44%	N/A
30	28106	Deshon	141.40	Agri/Res	11.69%	2.44%	1,620
31	02907	Rankin	180.00	Agri/Res	14.88%	2.44%	2,130
32	290502	Rankin	64.60	Agricultural	5.34%	2.44%	N/A
33	71000900100	Sheron	98.90	Agri/Res	8.18%	2.44%	3,125
34	290101	Hulett	179.40	Agri/Res	14.83%	2.44%	3,015
35	28069	Broughton	43.40	Agricultural	3.59%	2.44%	N/A
36	28070	Broughton	100.80	Agricultural	8.33%	2.44%	N/A
37	28073	Broughton	21.40	Agricultural	1.77%	2.44%	N/A
38	28084	Noe	204.90	Agricultural	16.94%	2.44%	N/A
39		Unknown	2.51	Residential	0.21%	2.44%	565
40	28090	Howard	8.20	Residential	0.68%	2.44%	N/A
41	28092	Howard	6.30	Industrial	0.52%	2.44%	N/A
Total			1209.560		100.00%	100.00%	976

I. Summary of Solar Projects in Kentucky

I have researched the solar projects in Kentucky. I identified the solar farms through the Solar Energy Industries Association (SEIA) Major Projects List and then excluded the roof mounted facilities. This leaves only four solar farms in Kentucky for analysis at this time.

I have provided a summary of projects below and additional detailed information on the projects on the following pages. I specifically note the similarity in most of the sites in Kentucky as compared to most of the states that I have searched before in terms of mix of adjoining uses, topography, and distances to adjoining homes.

The number of solar farms currently in Kentucky is low compared to a number of other states and NC in particular. I have looked at solar farms in Kentucky for sales activity, but the small number of sites coupled with the relatively short period of time these solar farms have been in place has not provided as many examples of sales adjoining a solar farm as I am able to pull from other places. I have therefore also considered sales in other states, but I have shown in the summary how the demographics around the solar farms in other locations relate to the demographics around the proposed solar farm to show that generally similar locations are being considered. The similarity of the sites in terms of adjoining uses and surrounding demographics makes it reasonable to compare the lack of significant impacts in other areas would translate into a similar lack of significant impact at the subject site.

Solar #	County	City	Name	Output (MW)	Total Acres	Used Acres	Avg. Dist to home	Closest Home	Topo Shift	Adjoining Use by Acre			
										Res	Agri	Agri/Res	Com
611	Warren	Bowling Green	Bowling Green	2	17.36	17.36	720	720	12	1%	64%	0%	36%
612	Clarky	Winchester	Cooperative Solar I	8.5	181.5	63	2,110	2,040	40	0%	96%	3%	0%
613	Kenton	Walton	Walton 2	2	58.03	58.03	891	120	90	21%	0%	60%	19%
614	Grant	Crittenden	Crittenden	2.7	181.7	34.1	1,035	345	40	22%	27%	51%	0%
Total Number of Solar Farms				4									
Average				3.80	109.6	43.1	1189	806	46	11%	47%	29%	14%
Median				2.35	119.8	46.1	963	533	40	11%	46%	27%	10%
High				8.50	181.7	63.0	2110	2040	90	22%	96%	60%	36%
Low				2.00	17.4	17.4	720	120	12	0%	0%	0%	0%

611: Bowling Green Solar, Bowling Green, KY



This project was built in 2011 and located on 17.36 acres for a 2 MW project on Scotty's Way with the adjoining uses being primarily industrial. The closest dwelling is 720 feet from the nearest panel.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	0.58%	10.00%
Agricultural	63.89%	30.00%
Industrial	35.53%	60.00%
Total	100.00%	100.00%

612: Cooperative Solar I, Winchester, KY



This project was built in 2017 on 63 acres of a 181.47-acre parent tract for an 8.5 MW project with the closest home at 2,040 feet from the closest solar panel.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	0.15%	11.11%
Agricultural	96.46%	77.78%
Agri/Res	3.38%	11.11%
Total	100.00%	100.00%

613: Walton 2 Solar, Walton, KY



This project was built in 2017 on 58.03 acres for a 2 MW project with the closest home 120 feet from the closest panel.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	20.84%	47.06%
Agri/Res	59.92%	17.65%
Commercial	19.25%	35.29%
Total	100.00%	100.00%

614: Crittenden Solar, Crittenden, KY



This project was built in late 2017 on 34.10 acres out of a 181.70-acre tract for a 2.7 MW project where the closest home is 345 feet from the closest panel.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	1.65%	32.08%
Agricultural	73.39%	39.62%
Agri/Res	23.05%	11.32%
Commercial	0.64%	9.43%
Industrial	0.19%	3.77%
Airport	0.93%	1.89%
Substation	0.15%	1.89%
Total	100.00%	100.00%

II. Market Analysis of the Impact on Value from Solar Farms

I have researched hundreds of solar farms in numerous states to determine the impact of these facilities on the value of adjoining property. This research has primarily been in North Carolina, but I have also conducted market impact analyses in Virginia, South Carolina, Tennessee, Texas, Oregon, Mississippi, Maryland, New York, California, Missouri, Florida, Montana, Georgia, Kentucky, and New Jersey

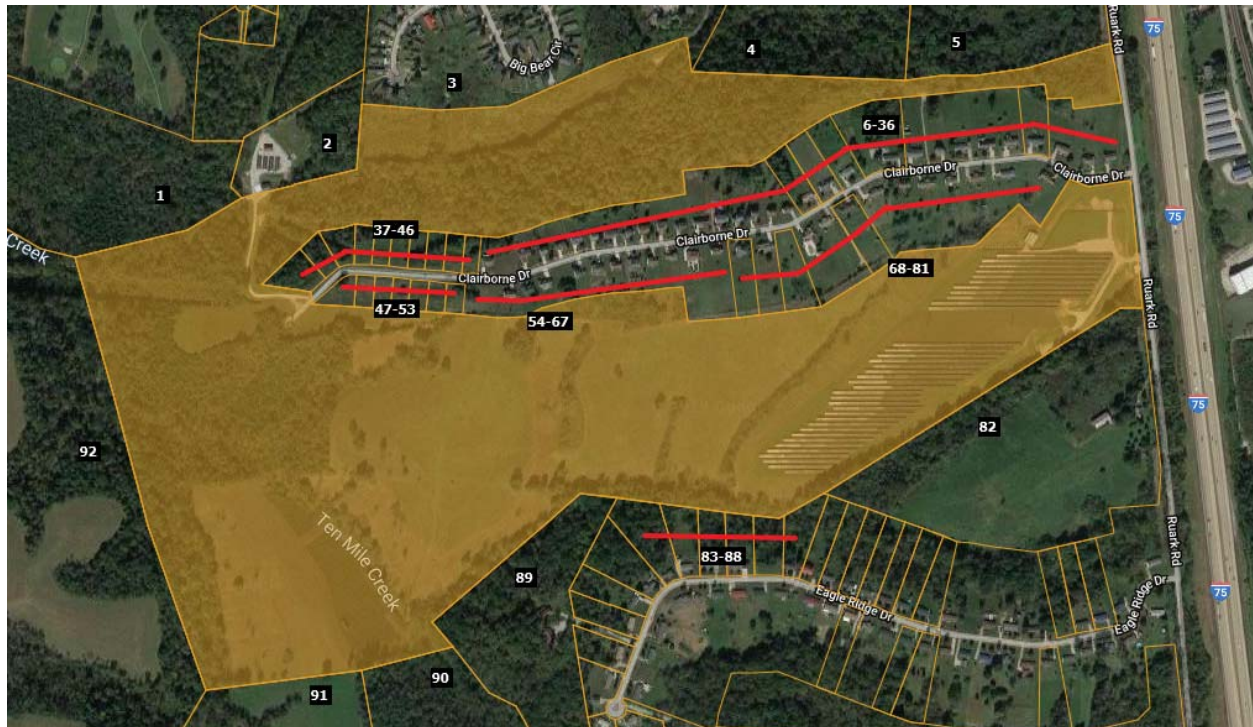
Wherever I have looked at solar farms, I have derived a breakdown of the adjoining uses to show what adjoining uses are typical for solar farms and what uses would likely be considered consistent with a solar farm use similar to the breakdown that I've shown for the subject property on the previous page. A summary showing the results of compiling that data over hundreds of solar farms is shown later in the Harmony of Use section of this report.

I also consider whether the properties adjoining a solar farm in one location have characteristics similar to the properties abutting or adjoining the proposed site so that I can make an assessment of market impact on each proposed site. Notably, in most cases solar farms are placed in areas very similar to the site in question, which is surrounded by low density residential and agricultural uses. In my over 600 studies, I have found a striking repetition of that same typical adjoining use mix in over 90% of the solar farms I have looked at. Matched pair results in multiple states are strikingly similar, and all indicate that solar farms – which generate very little traffic, and do not generate noise, dust or have other harmful effects – do not negatively impact the value of adjoining or abutting properties.

I have broken this down to show the data in Kentucky first and then followed that up with data from across the country including Kentucky for additional support.

A. *Kentucky Data*

1. Matched Pair – Crittenden Solar, Crittenden, KY



This solar farm was built in December 2017 on a 181.70-acre tract but utilizing only 34.10 acres. This is a 2.7 MW facility with residential subdivisions to the north and south.

I have identified four home sales to the north of this solar farm on Claiborne Drive and one home sale to the south on Eagle Ridge Drive since the completion of this solar farm. The home sale on Eagle Drive is for a \$75,000 home and all of the homes along that street are similar in size and price range. According to local broker Steve Glacken with Cutler Real Estate these are the lowest price range/style home in the market. I have not analyzed that sale as it would unlikely provide significant data to other homes in the area.

Mr. Glacken is currently selling lots at the west end of Claiborne for new home construction. He indicated that the solar farm near the entrance of the development has been a complete non-factor and none of the home sales are showing any concern over the solar farm. Most of the homes are in the \$250,000 to \$280,000 price range on lots being marketed for \$28,000 to \$29,000.

The first home considered is a bit of an anomaly for this subdivision in that it is the only manufactured home that was allowed in the community. It sold on January 3, 2019. I compared that sale to three other manufactured home sales in the area making minor adjustments as shown on the next page to account for the differences. After all other factors are considered the adjustments show a -1% to +13% impact due to the adjacency of the solar farm. The best indicator is 1250 Cason, which shows a 3% impact. A 3% impact is within the normal static of real estate transactions and therefore not considered indicative of a positive impact on the property, but it strongly supports an indication of no negative impact.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	250 Claiborne	0.96	1/3/2019	\$120,000	2000	2,016	\$59.52	3/2	Drive	Manuf	
	Not	1250 Cason	1.40	4/18/2018	\$95,000	1994	1,500	\$63.33	3/2	2-Det	Manuf	Carport
	Not	410 Reeves	1.02	11/27/2018	\$80,000	2000	1,456	\$54.95	3/2	Drive	Manuf	
	Not	315 N Fork	1.09	5/4/2019	\$107,000	1992	1,792	\$59.71	3/2	Drive	Manuf	

Adjustments

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
Adjoins	250 Claiborne								\$120,000			373
Not	1250 Cason	\$2,081		\$2,850	\$26,144		-\$5,000	-\$5,000	\$116,075	3%		
Not	410 Reeves	\$249		\$0	\$24,615				\$104,865	13%		
Not	315 N Fork	-\$1,091		\$4,280	\$10,700				\$120,889	-1%		
											5%	

I also looked at three other home sales on this street as shown below. These are stick-built homes and show a higher price range.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	300 Claiborne	1.08	9/20/2018	\$212,720	2003	1,568	\$135.66	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	Ranch	Brick
	Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick

Adjustments

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
Adjoins	300 Claiborne								\$213,000			488
Not	460 Claiborne	-\$2,026		-\$4,580	\$15,457	\$5,000			\$242,850	-14%		
Not	2160 Sherman	-\$5,672		-\$2,650	-\$20,406				\$236,272	-11%		
Not	215 Lexington	\$1,072		\$3,468	-\$2,559	-\$5,000			\$228,180	-7%		
											-11%	

This set of matched pairs shows a minor negative impact for this property. I was unable to confirm the sales price or conditions of this sale. The best indication of value is based on 215 Lexington, which required the least adjusting and supports a -7% impact.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	350 Claiborne	1.00	7/20/2018	\$245,000	2002	1,688	\$145.14	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick

Adjustments

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
Adjoins	350 Claiborne								\$245,000			720
Not	460 Claiborne	-\$3,223		-\$5,725	\$30,660	\$5,000			\$255,712	-4%		
Not	2160 Sherman	-\$7,057		-\$3,975	-\$5,743				\$248,225	-1%		
Not	215 Lexington	-\$136		\$2,312	\$11,400	-\$5,000			\$239,776	2%		
											-1%	

This set of matched pairs shows a no negative impact for this property. The range of adjusted impacts is -4% to +2%. The best indication is -1%, which as described above is within the typical market static and supports no impact on adjoining property value.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	370 Claiborne	1.06	8/22/2019	\$273,000	2005	1,570	\$173.89	4/3	2-Car	2-Story	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	2290 Dry	1.53	5/2/2019	\$239,400	1988	1,400	\$171.00	3/2.5	2-Car	R/FBsmt	Brick
	Not	125 Lexington	1.20	4/17/2018	\$240,000	2001	1,569	\$152.96	3/3	2-Car	Split	Brick

Adjustments										Avg		
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	370 Claiborne								\$273,000			930
Not	2160 Sherman	\$1,831		\$0	-\$20,161				\$246,670	10%		
Not	2290 Dry	\$2,260		\$20,349	\$23,256	\$2,500			\$287,765	-5%		
Not	125 Lexington	\$9,951		\$4,800					\$254,751	7%		
											4%	

This set of matched pairs shows a general positive impact for this property. The range of adjusted impacts is -5% to +10%. The best indication is +7%. I typically consider measurements of +/-5% to be within the typical variation in real estate transactions. This indication is higher than that and suggests a positive relationship.

The four matched pairs considered in this analysis includes two that show no impact on value, one that shows a negative impact on value, and one that shows a positive impact. The negative indication supported by one matched pair is -7% and the positive impact of another is +7%. The two neutral indications show impacts of -1% and +3%. The average indicated impact is +1% when all four of these indicators are blended.

Furthermore, the comments of the local broker strongly support the data that shows no negative impact on value due to the proximity to the solar farm. This is further supported by the national data that is shown on the following pages.

B. National Data

1. Matched Pair – AM Best Solar Farm, Goldsboro, NC

This solar farm adjoins Spring Garden Subdivision which had new homes and lots available for new construction during the approval and construction of the solar farm. The recent home sales have ranged from \$200,000 to \$250,000. This subdivision sold out the last homes in late 2014. The solar farm is clearly visible particularly along the north end of this street where there is only a thin line of trees separating the solar farm from the single-family homes.








Homes backing up to the solar farm are selling at the same price for the same floor plan as the homes that do not back up to the solar farm in this subdivision. According to the builder, the solar farm has been a complete non-factor. Not only do the sales show no difference in the price paid for the various homes adjoining the solar farm versus not adjoining the solar farm, but there are actually more recent sales along the solar farm than not. There is no impact on the sellout rate, or time to sell for the homes adjoining the solar farm.

I spoke with a number of owners who adjoin the solar farm and none of them expressed any concern over the solar farm impacting their property value.

The data presented on the following page shows multiple homes that have sold in 2013 and 2014 adjoining the solar farm at prices similar to those not along the solar farm. These series of sales indicate that the solar farm has no impact on the adjoining residential use.

The homes that were marketed at Spring Garden are shown below.

	<p>Americana SqFt: 3,194 Bed / Bath: 3 / 3.5</p>	<p>Price: \$237,900 View Now »</p>		<p>Washington SqFt: 3,292 Bed / Bath: 4 / 3.5</p>	<p>Price: \$244,900 View Now »</p>
	<p>Presidential SqFt: 3,400 Bed / Bath: 5 / 3.5</p>	<p>Price: \$247,900 View Now »</p>		<p>Kennedy SqFt: 3,494 Bed / Bath: 5 / 3</p>	<p>Price: \$249,900 View Now »</p>
	<p>Virginia SqFt: 3,449 Bed / Bath: 5 / 3</p>	<p>Price: \$259,900 View Now »</p>			

Matched Pairs

As of Date: 9/3/2014

Adjoining Sales After Solar Farm Completed

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600195570	Helm	0.76	Sep-13	\$250,000	2013	3,292	\$75.94	2 Story
3600195361	Leak	1.49	Sep-13	\$260,000	2013	3,652	\$71.19	2 Story
3600199891	McBrayer	2.24	Jul-14	\$250,000	2014	3,292	\$75.94	2 Story
3600198632	Foresman	1.13	Aug-14	\$253,000	2014	3,400	\$74.41	2 Story
3600196656	Hinson	0.75	Dec-13	\$255,000	2013	3,453	\$73.85	2 Story
	Average	1.27		\$253,600	2013.4	3,418	\$74.27	
	Median	1.13		\$253,000	2013	3,400	\$74.41	

Adjoining Sales After Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
0	Feddersen	1.56	Feb-13	\$247,000	2012	3,427	\$72.07	Ranch
0	Gentry	1.42	Apr-13	\$245,000	2013	3,400	\$72.06	2 Story
	Average	1.49		\$246,000	2012.5	3,414	\$72.07	
	Median	1.49		\$246,000	2012.5	3,414	\$72.07	

Adjoining Sales Before Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600183905	Carter	1.57	Dec-12	\$240,000	2012	3,347	\$71.71	1.5 Story
3600193097	Kelly	1.61	Sep-12	\$198,000	2012	2,532	\$78.20	2 Story
3600194189	Hadwan	1.55	Nov-12	\$240,000	2012	3,433	\$69.91	1.5 Story
	Average	1.59		\$219,000	2012	2,940	\$74.95	
	Median	1.59		\$219,000	2012	2,940	\$74.95	

Nearby Sales After Solar Farm Completed

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600193710	Barnes	1.12	Oct-13	\$248,000	2013	3,400	\$72.94	2 Story
3601105180	Nackley	0.95	Dec-13	\$253,000	2013	3,400	\$74.41	2 Story
3600192528	Mattheis	1.12	Oct-13	\$238,000	2013	3,194	\$74.51	2 Story
3600198928	Beckman	0.93	Mar-14	\$250,000	2014	3,292	\$75.94	2 Story
3600196965	Hough	0.81	Jun-14	\$224,000	2014	2,434	\$92.03	2 Story
3600193914	Preskitt	0.67	Jun-14	\$242,000	2014	2,825	\$85.66	2 Story
3600194813	Bordner	0.91	Apr-14	\$258,000	2014	3,511	\$73.48	2 Story
3601104147	Shaffer	0.73	Apr-14	\$255,000	2014	3,453	\$73.85	2 Story
	Average	0.91		\$246,000	2013.625	3,189	\$77.85	
	Median	0.92		\$249,000	2014	3,346	\$74.46	

Nearby Sales Before Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600191437	Thomas	1.12	Sep-12	\$225,000	2012	3,276	\$68.68	2 Story
3600087968	Lilley	1.15	Jan-13	\$238,000	2012	3,421	\$69.57	1.5 Story
3600087654	Burke	1.26	Sep-12	\$240,000	2012	3,543	\$67.74	2 Story
3600088796	Hobbs	0.73	Sep-12	\$228,000	2012	3,254	\$70.07	2 Story
	Average	1.07		\$232,750	2012	3,374	\$69.01	
	Median	1.14		\$233,000	2012	3,349	\$69.13	

Matched Pair Summary

	Adjoins Solar Farm		Nearby Solar Farm	
	Average	Median	Average	Median
Sales Price	\$253,600	\$253,000	\$246,000	\$249,000
Year Built	2013	2013	2014	2014
Size	3,418	3,400	3,189	3,346
Price/SF	\$74.27	\$74.41	\$77.85	\$74.46

Percentage Differences

Median Price	-2%
Median Size	-2%
Median Price/SF	0%

I note that 2308 Granville Drive sold again in November 2015 for \$267,500, or \$7,500 more than when it was purchased new from the builder two years earlier (Tax ID 3600195361, Owner: Leak). The neighborhood is clearly showing appreciation for homes adjoining the solar farm.

The Median Price is the best indicator to follow in any analysis as it avoids outlying samples that would otherwise skew the results. The median sizes and median prices are all consistent throughout the sales both before and after the solar farm whether you look at sites adjoining or nearby to the solar farm. The average for the homes nearby the solar farm shows a smaller building size and a higher price per square foot. This reflects a common occurrence in real estate where the price per square foot goes up as the size goes down. This is similar to the discount you see in any market where there is a discount for buying larger volumes. So when you buy a 2 liter coke you pay less per ounce than if you buy a 16 oz. coke. So even comparing averages the indication is for no impact, but I rely on the median rates as the most reliable indication for any such analysis.

I have also considered four more recent resales of homes in this community as shown on the following page. These comparable sales adjoin the solar farm at distances ranging from 315 to 400 feet. The matched pairs show a range from -9% to +6%. The range of the average difference is -2% to +1% with an average of 0% and a median of +0.5%. These comparable sales support a finding of no impact on property value.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	103 Granville Pl	1.42	7/27/2018	\$265,000	2013	3,292	\$80.50	4/3.5	2-Car	2-Story		385
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Adjoins	103 Granville Pl										Total	% Diff
	Not	2219 Granville	\$4,382		\$1,300	\$0						\$265,000	-2%
	Not	634 Friendly	-\$8,303		-\$6,675	\$16,721	-\$10,000					\$258,744	2%
	Not	2403 Granville	-\$6,029		-\$1,325	\$31,356						\$289,001	-9%

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	104 Erin	2.24	6/19/2017	\$280,000	2014	3,549	\$78.90	5/3.5	2-Car	2-Story		315
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Adjoins	104 Erin										Total	% Diff
	Not	2219 Granville	-\$4,448		\$2,600	\$16,238						\$280,000	0%
	Not	634 Friendly	-\$17,370		-\$5,340	\$34,702	-\$10,000					\$274,390	2%
	Not	2403 Granville	-\$15,029		\$0	\$48,285						\$268,992	4%
												\$298,256	-7%

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	2312 Granville	0.75	5/1/2018	\$284,900	2013	3,453	\$82.51	5/3.5	2-Car	2-Story		400
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Adjoins	2312 Granville										Total	% Diff
	Not	2219 Granville	\$2,476		\$1,300	\$10,173						\$284,900	1%
	Not	634 Friendly	-\$10,260		-\$6,675	\$27,986	-\$10,000					\$273,948	4%
	Not	2403 Granville	-\$7,972		-\$1,325	\$47,956						\$268,051	6%
												\$303,659	-7%

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	2310 Granville	0.76	5/14/2019	\$280,000	2013	3,292	\$85.05	5/3.5	2-Car	2-Story		400
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Adjoins	2310 Granville										Total	% Diff
	Not	2219 Granville	\$10,758		\$1,300	\$0						\$280,000	1%
	Not	634 Friendly	-\$1,755		-\$6,675	\$16,721	-\$10,000					\$272,058	3%
	Not	2403 Granville	\$469		-\$1,325	\$31,356						\$265,291	5%
												\$295,500	-6%

I have also considered the original sales prices in this subdivision relative to the recent resale values as shown in the chart below. This rate of appreciation is right at 2.5% over the last 6 years. Zillow indicates that the average home value within the 27530 zip code as of January 2014 was \$101,300 and as of January 2020 that average is \$118,100. This indicates an average increase in the market of 2.37%. I conclude that the appreciation of the homes adjoining the solar farm are not impacted by the presence of the solar farm based on this data.

Address	Initial Sale		Second Sale		Year Diff	Apprec. Apprec.	% Apprec.	Apprec. %/Year
	Date	Price	Date	Price				
1 103 Granville Pl	4/1/2013	\$245,000	7/27/2018	\$265,000	5.32	\$20,000	8.16%	1.53%
2 105 Erin	7/1/2014	\$250,000	6/19/2017	\$280,000	2.97	\$30,000	12.00%	4.04%
3 2312 Granville	12/1/2013	\$255,000	5/1/2015	\$262,000	1.41	\$7,000	2.75%	1.94%
4 2312 Granville	5/1/2015	\$262,000	5/1/2018	\$284,900	3.00	\$22,900	8.74%	2.91%
5 2310 Granville	8/1/2013	\$250,000	5/14/2019	\$280,000	5.79	\$30,000	12.00%	2.07%
6 2308 Granville	9/1/2013	\$260,000	11/12/2015	\$267,500	2.20	\$7,500	2.88%	1.31%
7 2304 Granville	9/1/2012	\$198,000	6/1/2017	\$225,000	4.75	\$27,000	13.64%	2.87%
8 102 Erin	8/1/2014	\$253,000	11/1/2016	\$270,000	2.25	\$17,000	6.72%	2.98%
							Average	2.46%
							Median	2.47%

2. Matched Pair – White Cross Solar Farm, Chapel Hill, NC



A new solar farm was built at 2159 White Cross Road in Chapel Hill, Orange County in 2013. After construction, the owner of the underlying land sold the balance of the tract not encumbered by the solar farm in July 2013 for \$265,000 for 47.20 acres, or \$5,606 per acre. This land adjoins the solar farm to the south and was clear cut of timber around 10 years ago. I compared this purchase to a nearby transfer of 59.09 acres of timber land just south along White Cross Road that sold in November 2010 for \$361,000, or \$6,109 per acre. After purchase, this land was divided into three mini farm tracts of 12 to 20 acres each. These rates are very similar and the difference in price per acre is attributed to the timber value and not any impact of the solar farm.

Type	TAX ID	Owner	Acres	Date	Price	\$/Acre	Notes	Conf By
Adjoins Solar	9748336770	Haggerty	47.20	Jul-13	\$265,000	\$5,614	Clear cut	Betty Cross, broker
Not Near Solar	9747184527	Purcell	59.09	Nov-10	\$361,000	\$6,109	Wooded	Dickie Andrews, broker

The difference in price is attributed to the trees on the older sale.

No impact noted for the adjacency to a solar farm according to the broker.

I looked at a number of other nearby land sales without proximity to a solar farm for this matched pair, but this land sale required the least allowance for differences in size, utility and location.

Matched Pair Summary

	Adjoins Solar Farm		Nearby Solar Farm	
	Average	Median	Average	Median
Sales Price	\$5,614	\$5,614	\$6,109	\$6,109
Adjustment for Timber	\$500	\$500		
Adjusted	\$6,114	\$6,114	\$6,109	\$6,109
Tract Size	47.20	47.20	59.09	59.09

Percentage Differences

Median Price Per Acre	0%
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This matched pair again supports the conclusion that adjacency to a solar farm has no impact on adjoining residential/agricultural land.

3. Matched Pair – Wagstaff Farm, Roxboro, NC



This solar farm is located at the northeast corner of a 594-acre farm with approximately 30 acres of solar farm area. This solar farm was approved and constructed in 2013.

After approval, 18.82 acres were sold out of the parent tract to an adjoining owner to the south. This sale was at a similar price to nearby land to the east that sold in the same time from for the same price per acre as shown below.

Type	TAX ID	Owner	Acres	Present Use	Date Sold	Price	\$/AC
Adjoins Solar	0918-17-11-7960	Piedmont	18.82	Agricultural	8/19/2013	\$164,000	\$8,714
Not Near Solar	0918-00-75-9812 et al	Blackwell	14.88	Agricultural	12/27/2013	\$130,000	\$8,739

Matched Pair Summary

	Adjoins Solar Farm		Nearby Solar Farm	
	Average	Median	Average	Median
Sales Price	\$8,714	\$8,714	\$8,739	\$8,739
Tract Size	18.82	18.82	14.88	14.88

Percentage Differences

Median Price Per Acre 0%

This matched pair again supports the conclusion that adjacency to a solar farm has no impact on adjoining residential/agricultural land.

4. Matched Pair – Mulberry, Selmer, TN



This solar farm was built in 2014 on 208.89 acres with the closest home being 480 feet away.

This solar farm adjoins two subdivisions with Central Hills having a mix of existing and new construction homes. Lots in this development have been marketed for \$15,000 each with discounts offered for multiple lots being used for a single home site. I spoke with the agent with Rhonda Wheeler and Becky Hearnberger with United County Farm & Home Realty who noted that they have seen no impact on lot or home sales due to the solar farm in this community.

I have included a map below as well as data on recent sales activity on lots that adjoin the solar farm or are near the solar farm in this subdivision both before and after the announced plan for this solar farm facility. I note that using the same method I used to breakdown the adjoining uses at the subject property I show that the predominant adjoining uses are residential and agricultural, which is consistent with the location of most solar farms.

Adjoining Use Breakdown

	Acreage	Parcels
Commercial	3.40%	0.034
Residential	12.84%	79.31%
Agri/Res	10.39%	3.45%
Agricultural	73.37%	13.79%
Total	100.00%	100.00%

From the above map, I identified four recent sales of homes that occurred adjoining the solar farm both before and after the announcement of the solar farm. I have adjusted each of these for differences in size and age in order to compare these sales among themselves. As shown below after adjustment, the median value is \$130,776 and the sales prices are consistent with one outlier which is also the least comparable home considered. The close grouping and the similar price per point overall as well as the similar price per square foot both before and after the solar farm.

Matched Pairs

#	TAX ID	Owner	Date Sold	Sales Price	Acres	Built	GBA	\$/GBA	Style	Parking
6&7	0900 A 011.00	Henson	Jul-14	\$130,000	2.65	2007	1,511	\$86.04	1 Story	2 Garage
12	0900 A 003.00	Amerson	Aug-12	\$130,000	1.20	2011	1,586	\$81.97	1 Story	2 Garage
15	099C A 003.00	Smallwood	May-12	\$149,900	1.00	2002	1,596	\$93.92	1 Story	4 Garage
16	099C A 002.00	Hessing	Jun-15	\$130,000	1.00	1999	1,782	\$72.95	1 Story	2 Garage
		Average		\$134,975	1.46	2005	1,619	\$83.72		
		Median		\$130,000	1.10	2005	1,591	\$84.00		

#	TAX ID	Owner	Date Sold	Sales Price	Adjustments*					
					Acres	Built	GBA	Style	Parking	Total
6&7	0900 A 011.00	Henson	Jul-14	\$130,000	-\$7,500	\$2,600	\$6,453	\$0	\$0	\$131,553
12	0900 A 003.00	Amerson	Aug-12	\$130,000	\$0	\$0	\$0	\$0	\$0	\$130,000
15	099C A 003.00	Smallwood	May-12	\$149,900	\$0	\$6,746	-\$939	\$0	-\$15,000	\$140,706
16	099C A 002.00	Hessing	Jun-15	\$130,000	\$0	\$7,800	-\$14,299	\$0	\$0	\$123,501
		Average		\$134,975	-\$1,875	\$4,286	-\$2,196	\$0	-\$3,750	\$131,440
		Median		\$130,000	\$0	\$4,673	-\$470	\$0	\$0	\$130,776

* I adjusted all of the comparables to a base line 2011 Year Built and 1,586 s.f. based on Lot 12

I also considered a number of similar home sales nearby that were both before and after the solar farm was announced as shown below. These homes are generally newer in construction and include a number of larger homes but show a very similar price point per square foot.

Nearby Sales Before Solar Farm Announced

TAX ID	Owner	Date Sold	Sales Price	Acres	Built	GBA	\$/GBA	Style	Parking
099B A 019	Durrance	Sep-12	\$165,000	1.00	2012	2,079	\$79.37	1 Story	2 Garage
099B A 021	Berryman	Apr-12	\$212,000	2.73	2007	2,045	\$103.67	1 Story	2 Garage
0900 A 060	Nichols	Feb-13	\$165,000	1.03	2012	1,966	\$83.93	1 Story	2 Garage
	Average		\$180,667	1.59	2010	2,030	\$88.99		
	Median		\$165,000	1.03	2012	2,045	\$83.93		

Nearby Sales After Solar Farm Announced

TAX ID	Owner	Date Sold	Sales Price	Acres	Built	GBA	\$/GBA	Style	Parking
090N A 040	Carrithers	Mar-15	\$120,000	1.00	2010	1,626	\$73.80	1 Story	2 Garage
099C A 043	Cherry	Feb-15	\$148,900	2.34	2008	1,585	\$93.94	1 Story	2 Garage
	Average		\$134,450	1.67	2009	1,606	\$83.87		
	Median		\$134,450	1.67	2009	1,606	\$83.87		

I then adjusted these nearby sales using the same criteria as the adjoining sales to derive the following breakdown of adjusted values based on a 2011 year built 1,586 square foot home. The adjusted values are consistent with a median rate of \$128,665, which is actually lower than the values for the homes that back up to the solar farm.

Nearby Sales Adjusted				Adjustments*					
TAX ID	Owner	Date Sold	Sales Price	Acres	Built	GBA	Style	Parking	Total
099B A 019	Durrance	Sep-12	\$165,000	\$0	-\$825	-\$39,127	\$0	\$0	\$125,048
099B A 021	Berryman	Apr-12	\$212,000	-\$7,500	\$4,240	-\$47,583	\$0	\$0	\$161,157
090O A 060	Nichols	Feb-13	\$165,000	\$0	-\$825	-\$31,892	\$0	\$0	\$132,283
090N A 040	Carrithers	Mar-15	\$120,000	\$0	\$600	-\$2,952	\$0	\$0	\$117,648
099C A 043	Cherry	Feb-15	\$148,900	-\$7,500	\$2,234	\$94	\$0	\$0	\$143,727
	Average		\$165,500	-\$1,875	\$798	-\$30,389	\$0	\$0	\$134,034
	Median		\$165,000	\$0	-\$113	-\$35,510	\$0	\$0	\$128,665

* I adjusted all of the comparables to a base line 2011 Year Built and 1,586 s.f. based on Lot 12

If you consider just the 2015 nearby sales, the range is \$117,648 to \$143,727 with a median of \$130,688. If you consider the recent adjoining sales the range is \$123,501 to \$131,553 with a median of \$127,527.

This difference is less than 3% in the median and well below the standard deviation in the sales. The entire range of the adjoining sales prices is overlapped by the range from the nearby sales. These are consistent data sets and summarized below.

Matched Pair Summary

	Adjoins Solar Farm		Nearby After Solar Farm	
	Average	Median	Average	Median
Sales Price	\$134,975	\$130,000	\$134,450	\$134,450
Year Built	2005	2005	2009	2009
Size	1,619	1,591	1,606	1,606
Price/SF	\$83.72	\$84.00	\$83.87	\$83.87

Based on the data presented above, I find that the price per square foot for finished homes is not being impacted negatively by the announcement of the solar farm. The difference in pricing in homes in the neighborhood is accounted for by differences in size, building age, and lot size. The median price for a home after those factors are adjusted for are consistent throughout this subdivision and show no impact due to the proximity of the solar farm. This is consistent with the comments from the broker I spoke with for this subdivision as well.

I have also run a number of direct matched comparisons on the sales adjoining this solar farm as shown below. These direct matched pairs include some of those shown above as well as additional more recent sales in this community. In each of these I have compared the one sale adjoining the solar farm to multiple similar homes nearby that do not adjoin a solar farm to look for any potential impact from the solar farm.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
3	Adjoins	491 Dusty	6.86	10/28/2016	\$176,000	2009	1,801	\$97.72	3/2	2-Gar	Ranch	
	Not	820 Lake Trail	1.00	6/8/2018	\$168,000	2013	1,869	\$89.89	4/2	2-Gar	Ranch	
	Not	262 Country	1.00	1/17/2018	\$145,000	2000	1,860	\$77.96	3/2	2-Gar	Ranch	
	Not	35 April	1.15	8/16/2016	\$185,000	2016	1,980	\$93.43	3/2	2-Gar	Ranch	

Adjoining Sales Adjusted												
Parcel	Solar	Address	Acres	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
3	Adjoins	491 Dusty								\$176,000		480
	Not	820 Lake Trail		-\$8,324	\$12,000	-\$3,360	-\$4,890			\$163,426	7%	
	Not	262 Country		-\$5,450	\$12,000	\$6,525	-\$3,680			\$154,396	12%	
	Not	35 April		\$1,138	\$12,000	-\$6,475	-\$13,380			\$178,283	-1%	
										Average	6%	

The best matched pair is 35 April Loop, which required the least adjustment and indicates a -1% increase in value due to the solar farm adjacency.

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
12	Adjoins	57 Cooper	1.20	2/26/2019	\$163,000	2011	1,586	\$102.77	3/2	2-Gar	1.5 Story	Pool
	Not	191 Amelia	1.00	8/3/2018	\$132,000	2005	1,534	\$86.05	3/2	Drive	Ranch	
	Not	75 April	0.85	3/17/2017	\$134,000	2012	1,588	\$84.38	3/2	2-Crprt	Ranch	
	Not	345 Woodland	1.15	12/29/2016	\$131,000	2002	1,410	\$92.91	3/2	1-Gar	Ranch	

Adjoining Sales Adjusted												
Parcel	Solar	Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
12	Adjoins	57 Cooper	\$163,000							\$163,000		685
	Not	191 Amelia	\$132,000	\$2,303		\$3,960	\$2,685	\$10,000	\$5,000	\$155,947	4%	
	Not	75 April	\$134,000	\$8,029	\$4,000	-\$670	-\$135	\$5,000	\$5,000	\$155,224	5%	
	Not	345 Woodland	\$131,000	\$8,710		\$5,895	\$9,811		\$5,000	\$160,416	2%	
										Average	4%	

The best matched pair is 191 Amelia, which was most similar in time frame of sale and indicates a +4% increase in value due to the solar farm adjacency.

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
15	Adjoins	297 Country	1.00	9/30/2016	\$150,000	2002	1,596	\$93.98	3/2	4-Gar	Ranch	
	Not	185 Dusty	1.85	8/17/2015	\$126,040	2009	1,463	\$86.15	3/2	2-Gar	Ranch	
	Not	53 Glen	1.13	3/9/2017	\$126,000	1999	1,475	\$85.42	3/2	2-Gar	Ranch	Brick

Adjoining Sales Adjusted												
Parcel	Solar	Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
15	Adjoins	297 Country	\$150,000							\$150,000		650
	Not	185 Dusty	\$126,040	\$4,355		-\$4,411	\$9,167	\$10,000		\$145,150	3%	
	Not	53 Glen	\$126,000	-\$1,699		\$1,890	\$8,269	\$10,000		\$144,460	4%	
										Average	3%	

The best matched pair is 53 Glen, which was most similar in time frame of sale and required less adjustment. It indicates a +4% increase in value due to the solar farm adjacency.

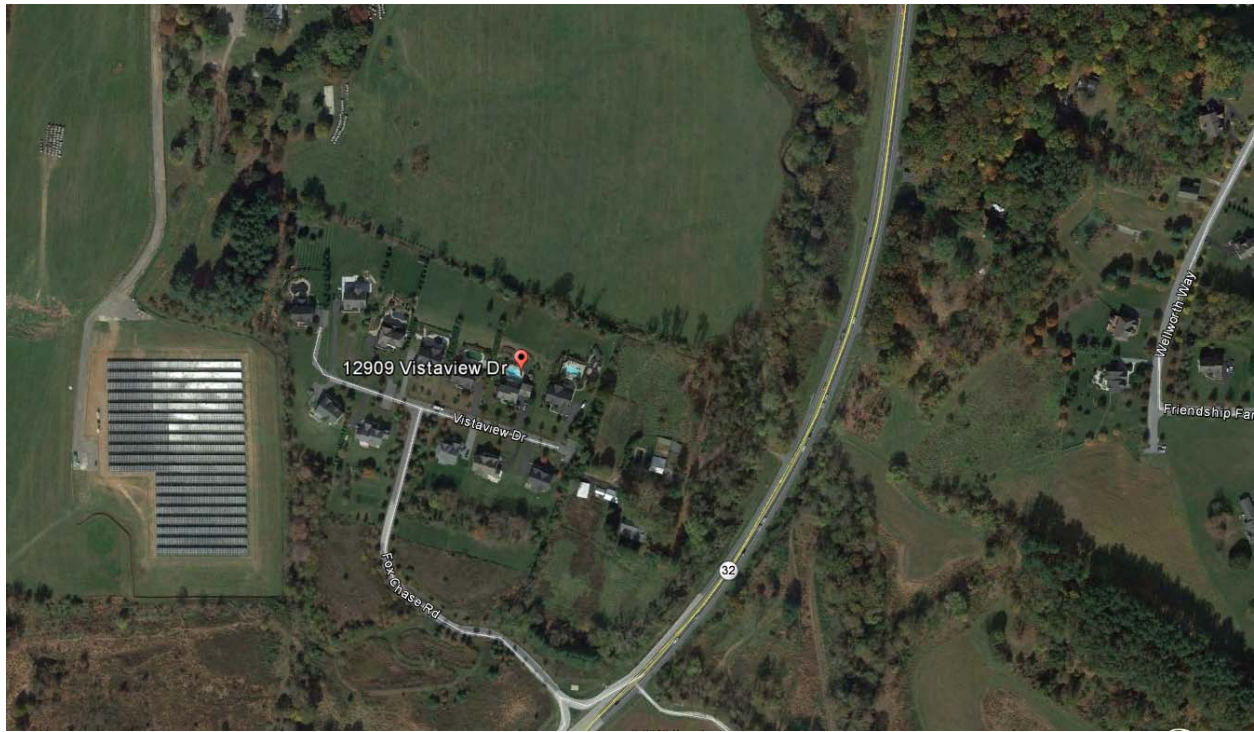
The average indicated impact from these three sets of matched pairs is +4%, which suggests a mild positive relationship due to adjacency to the solar farm.

I have also looked at several lot sales in this subdivision as shown below.

These are all lots within the same community and the highest prices paid are for lots one parcel off from the existing solar farm. These prices are fairly inconsistent, though they do suggest about a \$3,000 loss in the lots adjoining the solar farm. This is an atypical finding and additional details suggest there is more going on in these sales than the data crunching shows. First of all Parcel 4 was purchased by the owner of the adjoining home and therefore an atypical buyer seeking to expand a lot and the site is not being purchased for home development. Moreover, using the SiteToDoBusiness demographic tools, I found that the 1-mile radius around this development is expecting a total population increase over the next 5 years of 3 people. This lack of growing demand for lots is largely explained in that context. Furthermore, the fact that finished home sales as shown above are showing no sign of a negative impact on property value makes this data unreliable and inconsistent with the data shown in sales to an end user. I therefore place little weight on this outlier data.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	4/18/2019	\$/AC	4/18/2019
						Adj for Time		Adj for Time
4	Adjoins	Shelter	2.05	10/25/2017	\$16,000	\$16,728	\$7,805	\$8,160
10	Adjoins	Carter	1.70	8/2/2018	\$14,000	\$14,306	\$8,235	\$8,415
11	Adjoins	Cooper	1.28	9/17/2018	\$12,000	\$12,215	\$9,375	\$9,543
	Not	75 Dusty	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
	Not	Lake Trl	1.47	11/7/2018	\$13,000	\$13,177	\$8,844	\$8,964
	Not	Lake Trl	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
		Adjoins	Per Acre	Not Adjoins	Per Acre	% DIF/Lot	% DIF/AC	
	Average	\$14,416	\$8,706	\$17,726	\$10,972	19%	21%	
	Median	\$14,306	\$8,415	\$20,000	\$11,976	28%	30%	
	High	\$16,728	\$9,543	\$20,000	\$11,976	16%	20%	
	Low	\$12,215	\$8,160	\$13,177	\$8,964	7%	9%	

5. Matched Pair – Nixon’s Solar Farm, West Friendship, MD



This smaller 2 MW solar farm being developed in phases mostly adjoins agricultural and residential uses as shown above. This is part of what will eventually be a 10 MW facility.

I compared a recent sale of 12909 Vistaview Drive to 2713 Friendship Farm Court. While this does not look at an adjacent home sale, it is close proximity and based on the matched pair data in the report it shows a \$16,640 positive impact on value due to proximity to the solar farm, or 2.16%. This is within typical market friction and supports an indication of no impact on property value.

I have shown this data below.

Nixon’s Farm Solar Farm, West Friendship, MD

Nearby Residential Sale After Solar Farm Construction

Address	Solar Farm	Acres	Date Sold	Sales Price*	Built	GBA	\$/GBA	Style	BR/BA	Park
12909 Vistaview	Nearby	0.92	9/12/2014	\$771,640	2003	2,692	\$286.64	Colonial	4/3.5	2 Car Det
2713 Friendship Farm	Not	0.98	6/20/2014	\$690,000	2000	2,792	\$247.13	Colonial	4/2.5	2 Car Att

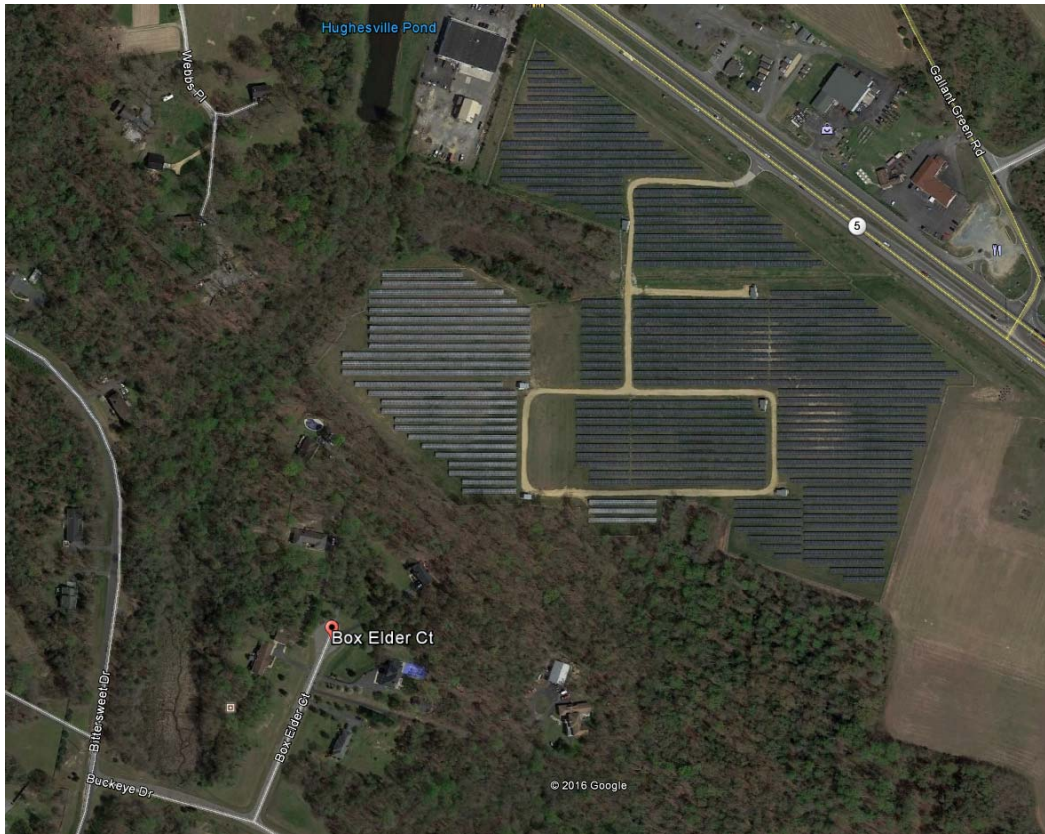
*\$3,360 concession deducted from sale price for Vistaview

Adjoining Sales Adjusted

Address	Date Sold	Sales Price	Time	Adjustments			BR/BA	Other	Total
				Acres	YB				
12909 Vistaview	9/12/2014	\$771,640							\$771,640
2713 Friendship Farm	6/20/2014	\$690,000		\$0	\$0	\$0	\$10,000	\$55,000	\$755,000

Difference Attributable to Location \$16,640
2.16%

6. Matched Pair – Leonard Road Solar Farm, Hughesville, MD



This solar farm mostly adjoins agricultural and residential uses to the west, south and east as shown above. The property also adjoins retail uses and a church. I looked at a 2016 sale of an adjoining home with a positive impact on value adjoining the solar farm of 2.90%. This is within typical market friction and supports an indication of no impact on property value.

I have shown this data below.

Leonardtown Road Solar Farm, Hughesville, MD

Nearby Residential Sale After Solar Farm Construction

Address	Solar Farm Acres	Date Sold	Sales Price*	Built	GBA	\$/GBA	Style	BR/BA	Bsmt	Park	Upgrades	Other
14595 Box Elder Ct	Adjoins	2/12/2016	\$291,000	1991	2,174	\$133.85	Colonial	5/2.5	No	2 Car Att	N/A	Deck
15313 Bassford Rd	Not	7/20/2016	\$329,800	1990	2,520	\$130.87	Colonial	3/2.5	Finished	2 Car Att	Custom	Scr Por/Patio

*\$9,000 concession deducted from sale price for Box Elder and \$10,200 deducted from Bassford

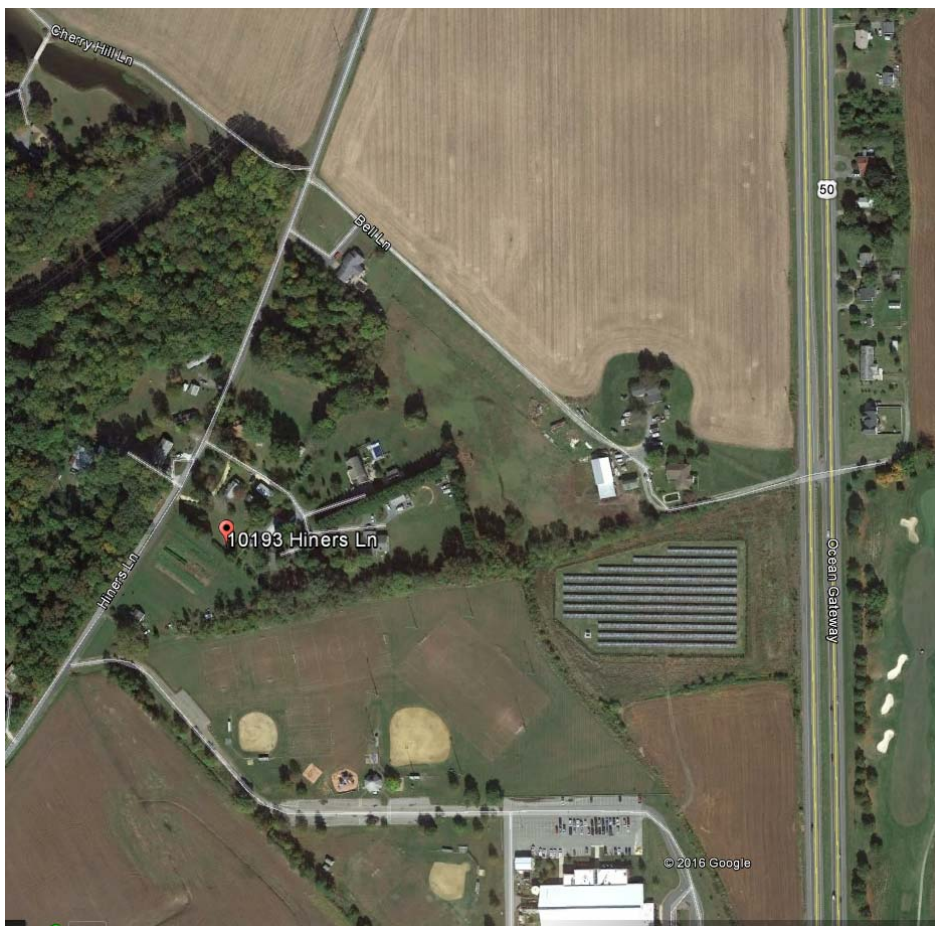
Adjoining Sales Adjusted

Address	Date Sold	Sales Price	Time	GLA	Bsmt	Upgrades	Other	Total
14595 Box Elder Ct	2/12/2016	\$291,000						\$291,000
15313 Bassford Rd	7/20/2016	\$329,800	-\$3,400	-\$13,840	-\$10,000	-\$15,000	-\$5,000	\$282,560

Difference Attributable to Location \$8,440
2.90%

This is within typical market friction and supports an indication of no impact on property value.

7. Matched Pair – Talbot County Community Center Solar Farm, Easton, MD



This solar farm mostly adjoins agricultural and residential uses but also the Community center and located across the street from a golf course which can be seen just to the east. I looked at a 2012 sale of a home 1,000 feet to the west of the solar farm with a slight positive impact on value nearby the solar farm.

I have shown this data below.

Talbot County Community Center, Easton, MD

Nearby Residential Sale After Solar Farm Construction

Address	Solar Farm	Acres	Date Sold	Sales Price*	Built	GBA	\$/GBA	Style	BR/BA	Park	Upgrades
10193 Hiners	Nearby	1.06	10/31/2012	\$136,092	1947	776	\$175.38	Bungalow	2/1	3 Car Det	N/A
10711 Hiners	Not	0.60	12/15/2012	\$135,000	1957	832	\$162.26	Bungalow	2/1	1 Car Det	Upd. Bath

*\$5,908 concessions deducted from 10193 Hiners sales price

Adjoining Sales Adjusted

Address	Date Sold	Sales Price	Age	Adjustments				Total	
				Acres	Park	Upgrades	Other		
10193 Hiners	10/31/2012	\$136,092						\$136,092	
10711 Hiners	12/15/2012	\$135,000		-\$6,750	\$4,000	\$6,000	-\$3,000	\$0	\$135,250

Difference Attributable to Location \$842

8. Matched Pair – Alamo II, San Antonio, Texas



This project is located at 8203 Binz-Engleman Road, Converse, Texas, on 98.37 acres with a 4.4 MW output. This project is located with small lot residential development on to the north west and south. There appears to be minimal landscaping along this project. The closest home to the north is 83 feet from the solar panels, while the homes to the west are 110 feet and the homes to the south are 175 feet away from the solar panels.

This solar farm strongly shows an acceptance of nearby residential development and solar farms as the minimal landscaping, close proximity, small adjoining lot sizes, and the development of homes on three sides of the solar farm are all indicators of a harmony of uses.

Adjoining Use Breakdown

Acreage	Parcels
Residential	94.64%
Agricultural	5.36%
Total	100.00%

I have considered home sales in the three adjoining subdivisions to look at matched pair data. There are sales and resales of homes in Glenloch and Mustang Valley subdivisions to the south and west of this solar farm.

I have considered multiple matched pairs from these subdivisions to show typical appreciation and no impact on property value both before and after the solar farm was constructed in 2013. I have

looked at a number of home sales and resales in the larger subdivisions, but I have focused on those directly adjoining/facing the solar farm in the examples shown below. These are sales and resales of the homes adjoining the solar farm both before and after the solar farm project in 2013.

The comparables shown below are compared to an earlier sale prior to the solar farm announcement or construction followed by a second sale after the solar farm. The first two have solar farms in the Backyard (B), while the other has the solar farm in the Side yard (S). All of these sales show appreciation that falls within the typical annual appreciation for homes in this area over this time period.

7703 Redstone Mnr (B)			7807 Redstone Mnr (B)			7734 Sundew Mist (S)		
	<u>Date</u>	<u>Price</u>		<u>Date</u>	<u>Price</u>		<u>Date</u>	<u>Price</u>
Sale	10/3/2012	\$149,980	Sale	5/11/2012	\$136,266	Sale	5/23/2012	\$117,140
Sale	3/24/2016	\$166,000	Sale	8/11/2014	\$147,000	Sale	11/18/2014	\$134,000
	<u>Time - YRS</u>	<u>% Incr.</u>		<u>Time - YRS</u>	<u>% Incr.</u>		<u>Time - YRS</u>	<u>% Incr.</u>
	3.47	10.7%		2.25	7.9%		2.49	14.4%
	<u>Per Year</u>	<u>3.1%</u>		<u>Per Year</u>	<u>3.5%</u>		<u>Per Year</u>	<u>5.8%</u>
Years	3.5	<u>10.8%</u>	Years	2.5	<u>8.7%</u>	Years	2	<u>11.6%</u>

I therefore conclude that this set of matched pairs shows no impact on property value and that homes in the area are showing typical appreciation consistent with other homes not in the vicinity of solar farms.

9. Matched Pair – Neal Hawkins Solar, Gastonia, NC



This project is located on the south side of Neal Hawkins Road just outside of Gastonia. The property identified above as Parcel 4 was listed for sale while this solar farm project was going through the approval process. The property was put under contract during the permitting process with the permit being approved while the due diligence period was still ongoing. After the permit was approved the property closed with no concerns from the buyer. I spoke with Jennifer Bouvier, the broker listing the property and she indicated that the solar farm had no impact at all on the sales price. She considered some nearby sales to set the price and the closing price was very similar to the asking price within the typical range for the market. The buyer was aware that the solar farm was coming and they had no concerns.

This two-story brick dwelling was sold on March 20, 2017 for \$270,000 for a 3,437 square foot dwelling built in 1934 in average condition on 1.42 acres. The property has four bedrooms and two bathrooms.

I also note that this land adjoins the church noted on Parcel 7 and the land leased for this solar farm is owned by that church.

10. Matched Pair – Summit/Ranchlands Solar, Moyock, NC



This project is located at 1374 Caritoke Highway, Moyock, NC. This is an 80 MW facility on a parent tract of 2,034 acres. Parcels Number 48 and 53 as shown in the map above were sold in 2016. The project was under construction during the time period of the first of the matched pair sales and the permit was approved well prior to that in 2015.

I looked at multiple sales of adjoining and nearby homes and compared each to multiple comparables to show a range of impacts from -10% up to +11% with an average of +2% and a median of +3%. These ranges are well within typical real estate variation and supports an indication of no impact on property value.

Adjoining Residential Sales After Solar Farm Approved													
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
48	Adjoins	129 Pinto	4.29	4/15/2016	\$170,000	1985	1,559	\$109.04	3/2	Drive	MFG		1,060
	Not	102 Timber	1.30	4/1/2016	\$175,500	2009	1,352	\$129.81	3/2	Drive	MFG		
	Not	120 Ranchland	0.99	10/1/2014	\$170,000	2002	1,501	\$113.26	3/2	Drive	MFG		
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	129 Pinto								\$170,000		-3%	
	Not	102 Timber	\$276	\$10,000	-\$29,484	\$18,809				\$175,101	-3%		
	Not	120 Ranchland	\$10,735	\$10,000	-\$20,230	\$4,598				\$175,103	-3%		

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
53	Adjoins	105 Pinto	4.99	12/16/2016	\$206,000	1978	1,484	\$138.81	3/2	Det Gar	Ranch		2,020
	Not	111 Spur	1.15	2/1/2016	\$193,000	1985	2,013	\$95.88	4/2	Gar	Ranch		
	Not	103 Marshall	1.07	3/29/2017	\$196,000	2003	1,620	\$120.99	3/2	Drive	Ranch		
	Not	127 Ranchland	0.99	6/9/2015	\$219,900	1988	1,910	\$115.13	3/2	Gar/3Gar	Ranch		
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	105 Pinto								\$206,000		11%	
	Not	111 Spur	\$6,918	\$10,000	-\$6,755	-\$25,359				\$177,803	14%		
	Not	103 Marshall	-\$2,268	\$10,000	-\$24,500	-\$8,227		\$5,000		\$176,005	15%		
	Not	127 Ranchland	\$13,738	\$10,000	-\$10,995	-\$24,523		-\$10,000		\$198,120	4%		

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
15	Adjoins	318 Green View	0.44	9/15/2019	\$357,000	2005	3,460	\$103.18	4/4	2-Car	1.5 Brick		570
	Not	195 St Andrews	0.55	6/17/2018	\$314,000	2002	3,561	\$88.18	5/3	2-Car	2.0 Brick		
	Not	336 Green View	0.64	1/13/2019	\$365,000	2006	3,790	\$96.31	6/4	3-Car	2.0 Brick		
	Not	275 Green View	0.36	8/15/2019	\$312,000	2003	3,100	\$100.65	5/3	2-Car	2.0 Brick		
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	318 Green View								\$357,000		4%	
	Not	195 St Andrews	\$12,040		\$4,710	-\$7,125	\$10,000			\$333,625	7%		
	Not	336 Green View	\$7,536		-\$1,825	-\$25,425			-\$5,000	\$340,286	5%		
	Not	275 Green View	\$815		\$3,120	\$28,986	\$10,000			\$354,921	1%		

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
29	Adjoins	164 Ranchland	1.01	4/30/2019	\$169,000	1999	2,052	\$82.36	4/2	Gar	MFG		440
	Not	150 Pinto	0.94	3/27/2018	\$168,000	2017	1,920	\$87.50	4/2	Drive	MFG		
	Not	105 Longhorn	1.90	10/10/2017	\$184,500	2002	1,944	\$94.91	3/2	Drive	MFG		
	Not	112 Pinto	1.00	7/27/2018	\$180,000	2002	1,836	\$98.04	3/2	Drive	MFG	Fenced	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	164 Ranchland								\$169,000		-10%	
	Not	150 Pinto	\$5,649		-\$21,168	\$8,085			\$5,000	\$165,566	2%		
	Not	105 Longhorn	\$8,816	-\$10,000	-\$3,875	\$7,175			\$5,000	\$191,616	-13%		
	Not	112 Pinto	\$4,202		-\$3,780	\$14,824			\$5,000	\$200,245	-18%		

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	358 Oxford	10.03	9/16/2019	\$478,000	2008	2,726	\$175.35	3/3	2 Gar	Ranch		635
	Not	276 Summit	10.01	12/20/2017	\$355,000	2006	1,985	\$178.84	3/2	2 Gar	Ranch		
	Not	176 Providence	6.19	5/6/2019	\$425,000	1990	2,549	\$166.73	3/3	4 Gar	Ranch	Brick	
	Not	1601 B Caratoke	12.20	9/26/2019	\$440,000	2016	3,100	\$141.94	4/3.5	5 Gar	Ranch	Pool	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	358 Oxford								\$478,000		5%	
	Not	276 Summit	\$18,996		\$3,550	\$106,017	\$10,000			\$493,564	-3%		
	Not	176 Providence	\$4,763		\$38,250	\$23,609		-\$10,000	-\$25,000	\$456,623	4%		
	Not	1601 B Caratoke	-\$371	\$50,000	-\$17,600	-\$42,467	-\$5,000	-\$10,000		\$414,562	13%		

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Nearby	343 Oxford	10.01	3/9/2017	\$490,000	2016	3,753	\$130.56	3/3	2 Gar	1.5 Story	Pool	970
	Not	287 Oxford	10.01	9/4/2017	\$600,000	2013	4,341	\$138.22	5/4.5	8-Gar	1.5 Story	Pool	
	Not	301 Oxford	10.00	4/23/2018	\$434,000	2013	3,393	\$127.91	5/3	2 Gar	1.5 Story		
	Not	218 Oxford	10.01	4/4/2017	\$525,000	2006	4,215	\$124.56	4/3	4 Gar	1.5 Story	VG Barn	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	343 Oxford								\$490,000		3%
Not	287 Oxford	-\$9,051		\$9,000	-\$65,017	-\$15,000	-\$25,000		\$494,932	-1%	
Not	301 Oxford	-\$14,995	-\$10,000	\$6,510	\$36,838				\$452,353	8%	
Not	218 Oxford	-\$1,150		\$26,250	-\$46,036		-\$10,000	-\$10,000	\$484,064	1%	

11. Matched Pair – White Cross II, Chapel Hill, NC



This project is located in rural Orange County on White Cross Road with a 2.8 MW facility. This project is a few parcels south of White Cross Solar Farm that was developed by a different company. An adjoining home sold after construction as presented below.

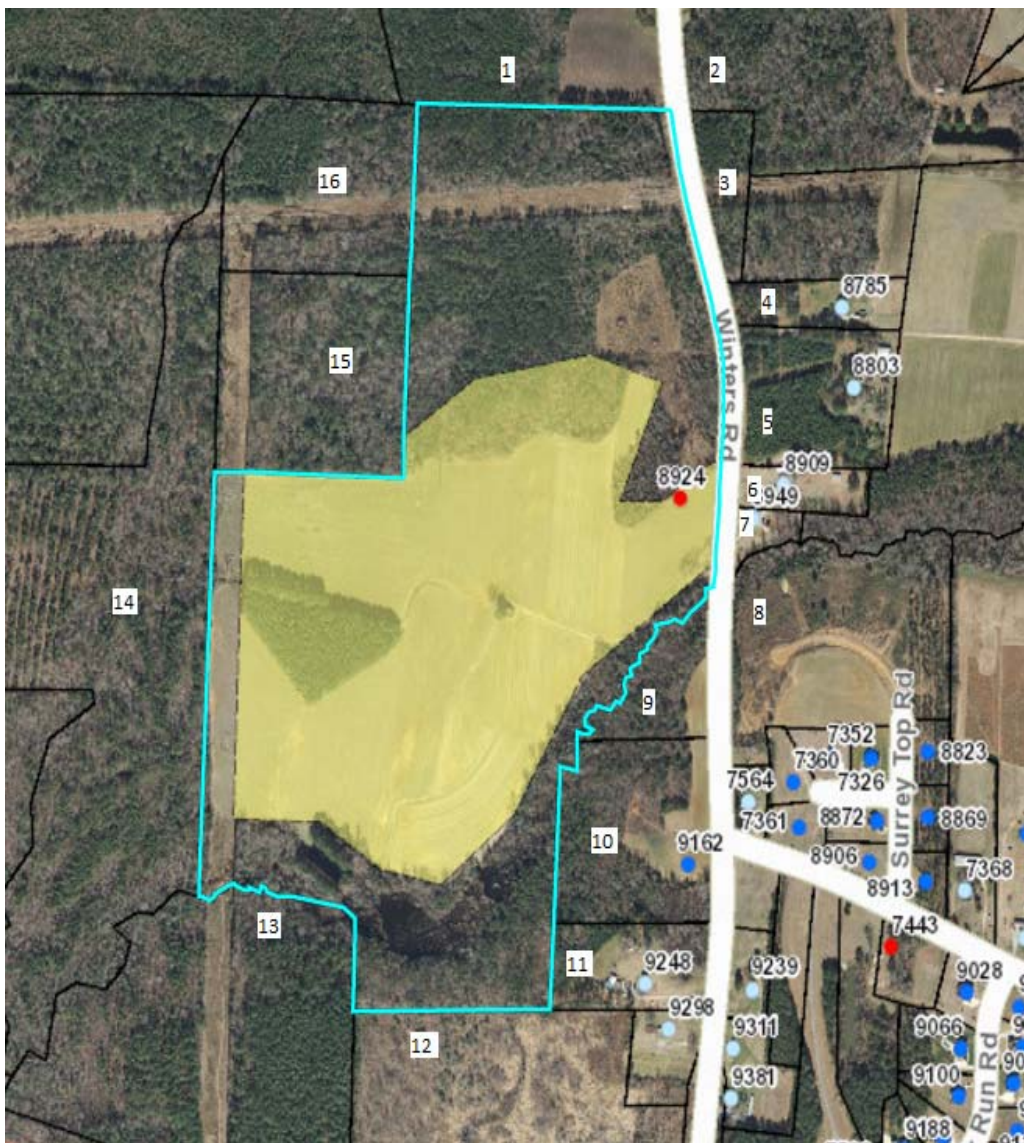
Adjoining Residential Sales After Solar Farm Completed

Solar	TAX ID/Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
Adjoins	97482114578	11.78	2/29/2016	\$340,000	1994	1,601	\$212.37	3/3	Garage	Ranch
Not	4200B Old Greensbor	12.64	12/28/2015	\$380,000	2000	2,075	\$183.13	3/2.5	Garage	Ranch

Adjoining Residential Sales After Solar Farm Adjoining Sales Adjusted

Solar	TAX ID/Address	Sales Price	Time	Acres	YB	GLA	BR/BA	Park	Total	% Diff
Adjoins	97482114578	\$340,000							\$340,000	
Not	4200B Old Greensbor	\$380,000	\$3,800	\$0	-\$15,960	-\$43,402	\$5,000	\$0	\$329,438	3%

12. Matched Pair – Tracy Solar, Bailey, NC



This project is located in rural Nash County on Winters Road with a 5 MW facility that was built in 2016. A local builder acquired parcels 9 and 10 following construction as shown below at rates comparable to other tracts in the area. They then built a custom home for an owner and sold that at a price similar to other nearby homes as shown in the matched pair data below.

Adjoining Land Sales After Solar Farm Completed

#	Solar Farm	TAX ID	Grantor	Grantee	Address	Acres	Date Sold	Sales Price	\$/AC	Other
9 & 10	Adjoins	316003 & 316004	Cozart	Kingsmill	9162 Winters	13.22	7/21/2016	\$70,000	\$5,295	
	Not	6056	Billingsly		427 Young	41	10/21/2016	\$164,000	\$4,000	
	Not	33211	Fulcher	Weikel	10533 Cone	23.46	7/18/2017	\$137,000	\$5,840	Doublewide, structures
	Not	106807	Perry	Gardner	Claude Lewis	11.22	8/10/2017	\$79,000	\$7,041	Gravel drive for sub, cleared
	Not	3437	Vaughan	N/A	11354 Old Lewis Sch	18.73	Listing	\$79,900	\$4,266	Small cemetery, wooded

Adjoining Sales Adjusted

Time	Acres	Location	Other	Adj \$/Ac	% Diff
				\$5,295	
\$0	\$400	\$0	\$0	\$4,400	17%
-\$292	\$292	\$0	-\$500	\$5,340	-1%
-\$352	\$0	\$0	-\$1,000	\$5,689	-7%
-\$213	\$0	\$0	\$213	\$4,266	19%
Average					7%

Adjoining Residential Sales After Solar Farm Completed

#	Solar Farm	n	Address	Acres	Date Sold	Sales Price	Built	GLA	\$/GLA	BR/BA	Style	Other
9 & 10	Adjoins	9	9162 Winters	13.22	1/5/2017	\$255,000	2016	1,616	\$157.80	3/2	Ranch	1296 sf wrkshp
	Not	7	7352 Red Fox	0.93	6/30/2016	\$176,000	2010	1,529	\$115.11	3/2	2-story	

Adjoining Sales Adjusted

Time	Acres	YB	GLA	Style	Other	Total	% Diff
						\$255,000	
\$0	\$44,000	\$7,392	\$5,007	\$5,000	\$15,000	\$252,399	1%

The comparables for the land show either a significant positive relationship or a mild negative relationship to having and adjoining solar farm, but when averaged together they show no negative impact. The wild divergence is due to the difficulty in comping out this tract of land and the wide variety of comparables used. The two comparables that show mild negative influences include a property that was partly developed as a residential subdivision and the other included a doublewide with some value and accessory agricultural structures. The tax assessed value on the improvements were valued at \$60,000. So both of those comparables have some limitations for comparison. The two that show significant enhancement due to adjacency includes a property with a cemetery located in the middle and the other is a tract almost twice as large. Still that larger tract after adjustment provides the best matched pair as it required the least adjustment. I therefore conclude that there is no negative impact due to adjacency to the solar farm shown by this matched pair.

The dwelling that was built on the site was a build-to-suit and was compared to a nearby homesale of a property on a smaller parcel of land. I adjusted for that differenced based on a \$25,000 value for a 1-acre home site versus the \$70,000 purchase price of the larger subject tract. The other adjustments are typical and show no impact due to the adjacency to the solar farm.

The closest solar panel to the home is 780 feet away.

I note that the representative for Kingsmill Homes indicated that the solar farm was never a concern in purchasing the land or selling the home. He also indicated that they had built a number of nearby homes across the street and it had never come up as an issue.

13. Matched Pair – Manatee Solar Farm, Parrish, FL



This solar farm is located near Seminole Trail, Parrish, FL. The solar farm has a 74.50 MW output and is located on a 1,180.38 acre tract and was built in 2016. The tract is owned by Florida Power & Light Company.

I have considered the recent sale of 13670 Highland Road, Wimauma, Florida. This one-story, block home is located just north of the solar farm and separated from the solar farm by a railroad corridor. This home is a 3 BR, 3 BA 1,512 s.f. home with a carport and workshop. The property includes new custom cabinets, granite counter tops, brand new stainless steel appliances, updated bathrooms and new carpet in the bedrooms. The home is sitting on 5 acres. The home was built in 1997.

I have compared this sale to several nearby homesales as part of this matched pair analysis as shown below.

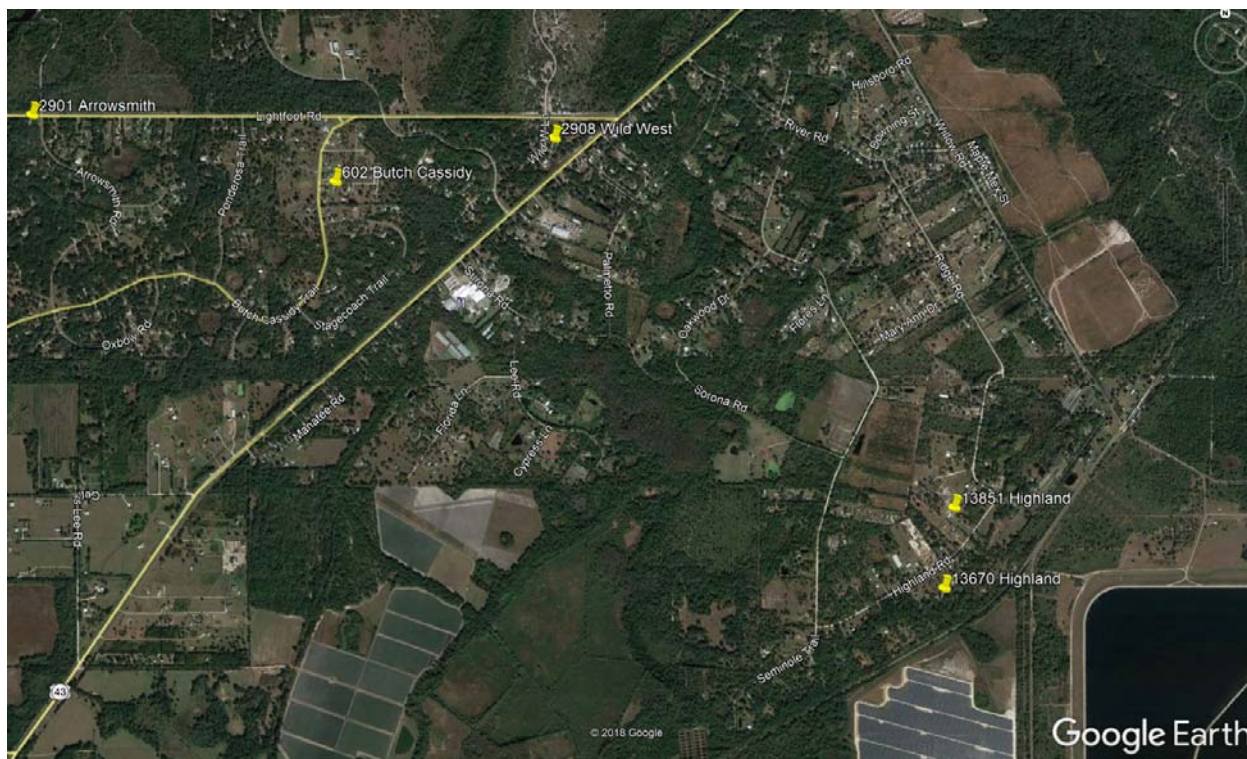
Solar	TAX ID/Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Note
Adjoins	13670 Highland	5.00	8/21/2017	\$255,000	1997	1,512	\$168.65	3/3	Carport/Wrkshp	Ranch	Renov.
Not	2901 Arrowsmith	1.91	1/31/2018	\$225,000	1979	1,636	\$137.53	3/2	2 Garage/Wrkshp	Ranch	
Not	602 Butch Cassidy	1.00	5/5/2017	\$220,000	2001	1,560	\$141.03	3/2	N/A	Ranch	Renov.
Not	2908 Wild West	1.23	7/12/2017	\$254,000	2003	1,554	\$163.45	3/2	2 Garage/Wrkshp	Ranch	Renov.
Not	13851 Highland	5.00	9/13/2017	\$240,000	1978	1,636	\$146.70	4/2	3 Garage	Ranch	Renov.

Solar	TAX ID/Address	Adjoining Sales Adjusted						Note	Total	% Diff
		Time	Acres	YB	GLA	BR/BA	Park			
Adjoins	13670 Highland							\$255,000		
Not	2901 Arrowsmith	\$2,250	\$10,000	\$28,350	-\$8,527	\$5,000	-\$10,000	\$10,000	\$262,073	-3%
Not	602 Butch Cassidy	-\$2,200	\$10,000	-\$6,160	-\$3,385	\$5,000	\$2,000		\$225,255	12%
Not	2908 Wild West	\$0	\$10,000	-\$10,668	-\$3,432	\$5,000	-\$10,000		\$244,900	4%
Not	13851 Highland	\$0	\$0	\$31,920	-\$9,095	\$3,000	-\$10,000		\$255,825	0%
Average										3%

The sales prices of the comparables before adjustments range from \$220,000 to \$254,000. After adjustments they range from \$225,255 to \$262,073. The comparables range from no impact to a strong positive impact. The comparables showing -3% and +4% impact on value are considered within a typical range of value and therefore not indicative of any impact on property value.

This set of matched pair data falls in line with the data seen in other states. The closest solar panel to the home at 13670 Highland is 1,180 feet. There is a wooded buffer between these two properties.

I have included a map showing the relative location of these properties below.



14. Matched Pair – McBride Place Solar Farm, Midland, NC



This project is located on Mount Pleasant Road, Midland, North Carolina. The property is on 627 acres on an assemblage of 974.59 acres. The solar farm was approved in early 2017 for a 74.9 MW facility.

I have considered the sale of 4380 Joyner Road which adjoins the proposed solar farm near the northwest section. This property was appraised in April of 2017 for a value of \$317,000 with no consideration of any impact due to the solar farm in that figure. The property sold in November 2018 for \$325,000 with the buyer fully aware of the proposed solar farm.

I have considered the following matched pairs to the subject property.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	4380 Joyner	12.00	11/22/2017	\$325,000	1979	1,598	\$203.38	3/2	2xGar	Ranch	Outbldg
Not	3870 Elkwood	5.50	8/24/2016	\$250,000	1986	1,551	\$161.19	3/2.5	Det 2xGar	Craft	
Not	8121 Lower Rocky	18.00	2/8/2017	\$355,000	1977	1,274	\$278.65	2/2	2xCarprt	Ranch	Eq. Fac.
Not	13531 Cabarrus	7.89	5/20/2016	\$267,750	1981	2,300	\$116.41	3/2	2xGar	Ranch	

Adjoining Sales Adjusted

Time	Acres	YB	Condition	GLA	BR/BA	Park	Other	Total	% Diff
								\$325,000	
\$7,500	\$52,000	-\$12,250	\$10,000	\$2,273	-\$2,000	\$2,500	\$7,500	\$317,523	2%
\$7,100	-\$48,000	\$4,970		\$23,156	\$0	\$3,000	-\$15,000	\$330,226	-2%
\$8,033	\$33,000	-\$3,749	\$20,000	-\$35,832	\$0	\$0	\$7,500	\$296,702	9%
								Average	3%

After adjusting the comparables, I found that the average adjusted value shows a slight increase in value for the subject property adjoining a solar farm. As in the other cases, this is a mild positive and within the typical range of real estate transactions. I therefore conclude that these matched pairs show no impact on value.

I note that the home at 4380 Joyner Road is 275 feet from the closest proposed solar panel.

I also considered the recent sale of a lot on Kristi Lane that is on the east side of the proposed solar farm. This 4.22-acre lot sold in December 2017 for \$94,000. I spoke with the broker, Margaret Dabbs, who indicated that the solar farm was considered a positive by both buyer and seller as it insures no subdivision will be happening in that area. Buyers in this market are looking for privacy and seclusion. The other lots on Kristi Lane are likely to sale soon at similar prices. Ms. Dabbs indicated that they have had these lots on the market for about 5 years at asking prices that were probably a little high and they are now selling and they have another under contract.

15. Matched Pair – Yamhill II, Amity, OR



This solar farm has a 1.2 MW output and is located on a 186.60 acre tract using less than 10 of those acres. The project was built in 2011.

I have considered the recent sale of Parcel 11 shown above, which sold on July 22, 2015 after the solar farm was built. The property sold for \$326,456 for a 2.12 acre site with a home built in 1912 with 2,154 s.f. and 4 BR and 2 BA. It was noted as a recently remodeled residence with outbuildings that sold for \$151.56 per square foot. I compared this to a number of similar older residences on similar acreage as shown below.

Adjoining Residential Sales After Solar Farm Approved										Adjust for Adjusted Adjusted		
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Time	Sales	\$/SF	
Adjoins	12001 SW Bellevue, Amity	2.12	7/22/2015	\$326,456	1912	2,154	\$151.56	4/2				
Not	19915 SW Muddy, McMinnville	1.82	2/28/2011	\$213,400	1910	1,798	\$118.69	3/2	27%	\$271,018	\$150.73	
Not	22600 Hopewell, Salem	1.00	10/15/2014	\$256,000	1910	1,966	\$130.21	3/2	5%	\$268,800	\$136.72	
Not	22355 Hopewell, Salem	1.00	11/13/2015	\$320,000	1930	2,592	\$123.46	3/2	-2%	\$313,600	\$120.99	
Not	9955 Bethel, Amity	2.86	2/17/2016	\$289,900	1936	2,028	\$142.95	3/2	-4%	\$278,304	\$137.23	
Not	3361 Lone Oak, McMinnville	2.91	3/1/2016	\$465,000	1937	2,950	\$157.63	3/2	-7%	\$432,450	\$146.59	
										Average	\$138.45	
										Median	\$137.23	

The sales prices of the comparables were only adjusted for time and provide a range of adjusted values of \$120.99 per square foot to \$150.73 per square foot. The subject property sold for above the high end of this range despite being on the older end of the range of comparables. Considering 9955 Bethel as the most similar in acreage, age and size and the price per square foot which adjusted to the median rate at \$137.23 per square foot. Applying that rate to the subject property square footage, the indicated value is \$295,593 for that matched pair, suggesting a 9% enhancement due to the adjacency to the solar farm.

This set of matched pair data falls in line with the data seen in other states. The home is 700 feet from the closest solar panel.

16. Matched Pair – Marion Solar, Aurora, OR



This solar farm has a 0.3 MW output and is located on a 2-acre portion of a 31.76-acre tract. The project was built in 2014.

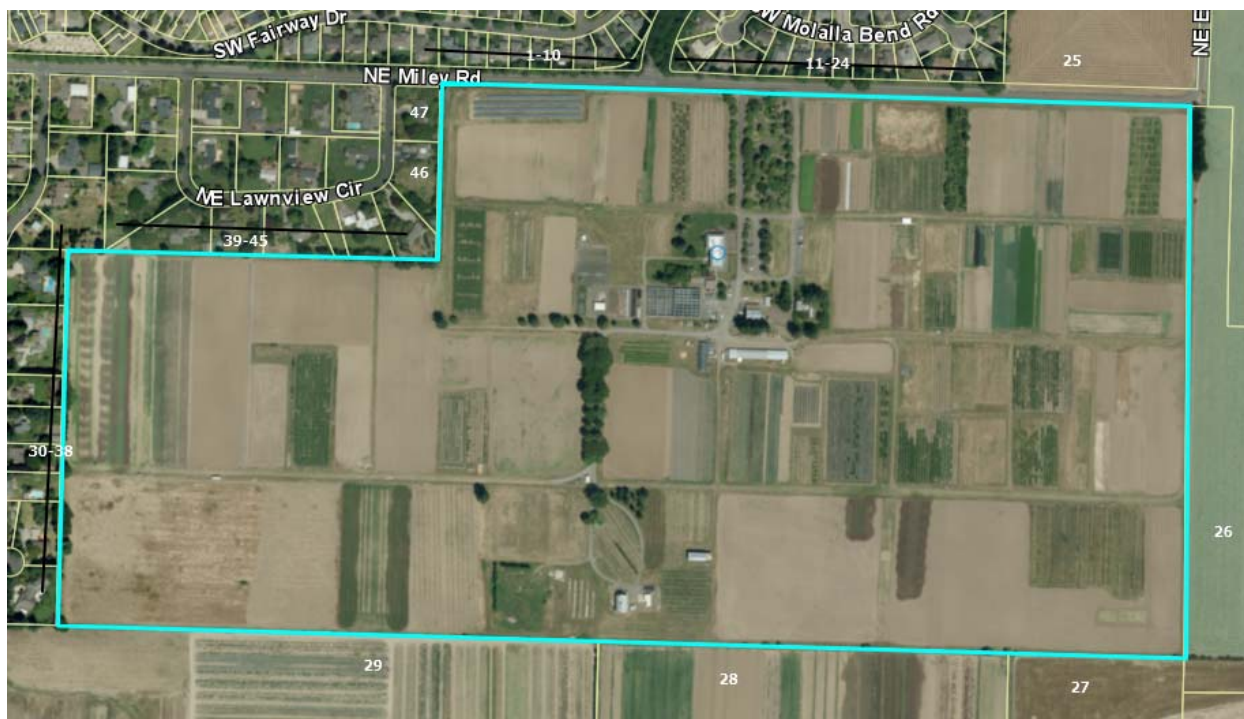
I have considered the recent sale of Parcels 5 and 6 shown above, which sold on August 6, 2014 after the solar farm was built for \$259,000, or \$16,444 per acre for a combined 15.75 acres. This was sold as vacant agricultural land with a permitted home site.

I compared this to a number of similar land sales as shown below.

Adjoining Residential Land Sales After Solar Farm Approved								Adj for	Adjusted	Adjusted
Solar	Address	Acres	Date Sold	Sales Price	\$/Ac	Soils	Homesite	Time	Sales	\$/SF
Adjoins	18916 Butteville, Aurora	15.75	8/6/2014	\$259,000	\$16,444	2&3	Est.			
Not	15961 Wilsonville, Wilsonville	50.50	5/20/2014	\$950,000	\$18,812	2&3	Est.	1.5%	\$964,250	\$19,094
Not	11471 Wilco, Mt. Angel	13.31	11/10/2014	\$159,500	\$11,983	2&4	N/A	-1.5%	\$157,108	\$11,804
Not	Waconda, Salem	11.86	9/9/2015	\$215,000	\$18,128	2	N/A	-6.5%	\$201,025	\$16,950
									Average	\$15,949
									Median	\$16,950

The sales price for the subject property is in line and between the average and median rates from the comparables. The sale at 11471 Wilco is the most similar in terms of acreage, time, and location. The sale on Waconda is similar in size, but newer and required more adjustment. I therefore conclude that no impact due to the proximity of the solar farm.

17. Matched Pair – Clackamas II, Aurora, OR



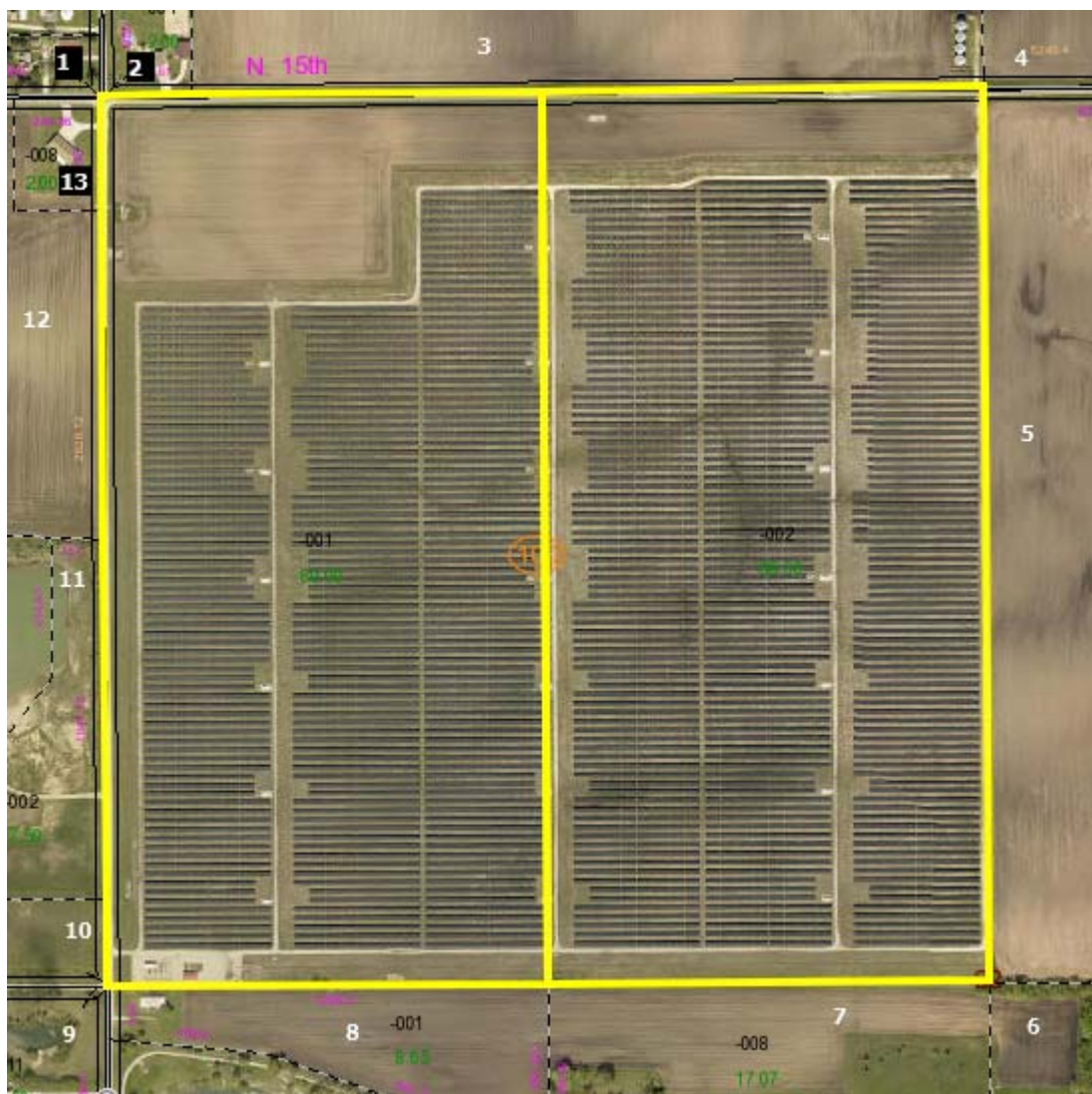
This solar farm has a 0.22 MW output and is located on a 1-acre portion of a 156.32-acre tract. The project was built in 2014.

I have considered the homesales along SW Fairway Drive both before and after the solar farm was announced to see if there was any impact on total sales price or price per square foot. As can be seen in the chart below, the sales prices continued to trend upward after the announcement and the price per square foot continued to trend upward. These homes are all approximately 125 feet from the closest solar panel.

I adjusted these based on 0.75% per month difference in date of sale to January 1, 2014. The indicated average and median rate are right in line with the sales before and after the solar farm was built. These comparables strongly indicate no impact in sales price.

Adjoining Residential Sales Before and After Solar Farm Announced								Adjust	Adjusted	Adjusted
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Time	Sales	\$/SF
Prior	7500 SW Fairway	0.20	12/9/2011	\$365,000	1992	2,435	\$149.90	18.8%	\$433,620	\$178.08
Prior	7580 SW Fairway	0.30	11/21/2012	\$335,000	1990	2,256	\$148.49	11%	\$370,175	\$164.08
Prior	7480 SW Fairway	0.19	6/27/2013	\$365,000	1992	2,244	\$162.66	5%	\$384,345	\$171.28
							\$153.68	Average		\$171.15
							\$149.90	Median		\$171.28
After	7620 SW Fairway	0.27	7/1/2013	\$365,000	1992	2,212	\$165.01	3.8%	\$378,870	\$171.28
After	7700 SW Fairway	0.18	6/11/2014	\$377,100	1991	2,328	\$161.98	-2%	\$371,444	\$159.55
After	7380 SW Fairway	0.19	7/18/2014	\$415,000	1989	2,115	\$196.22	-6%	\$390,100	\$184.44
							\$174.40	Average		\$171.76
							\$165.01	Median		\$171.28

18. Matched Pair – Grand Ridge Solar, Streator, IL



This solar farm has a 20 MW output and is located on a 160-acre tract. The project was built in 2012.

I have considered the recent sale of Parcel 13 shown above, which sold in October 2016 after the solar farm was built. I have compared that sale to a number of nearby residential sales not in proximity to the solar farm as shown below. Parcel 13 is 480 feet from the closest solar panel.

Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
13	34-21-237-000	2	Oct-16	\$186,000	1997	2,328	\$79.90

Not Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
712 Columbus Rd	32-39-134-005	1.26	Jun-16	\$166,000	1950	2,100	\$79.05
504 N 2782 Rd	18-13-115-000	2.68	Oct-12	\$154,000	1980	2,800	\$55.00
7720 S Dwight Rd	11-09-300-004	1.14	Nov-16	\$191,000	1919	2,772	\$68.90
701 N 2050th Rd	26-20-105-000	1.97	Aug-13	\$200,000	2000	2,200	\$90.91
9955 E 1600th St	04-13-200-007	1.98	May-13	\$181,858	1991	2,600	\$69.95

TAX ID	Date Sold	Time	Adjustments	
			Total	\$/Sf
34-21-237-000	Oct-16		\$186,000	\$79.90
32-39-134-005	Jun-16		\$166,000	\$79.05
18-13-115-000	Oct-12	\$12,320	\$166,320	\$59.40
11-09-300-004	Nov-16		\$191,000	\$68.90
26-20-105-000	Aug-13	\$12,000	\$212,000	\$96.36
04-13-200-007	May-13	\$10,911	\$192,769	\$74.14

	Adjoins Solar Farm		Not Adjoin Solar Farm	
	Average	Median	Average	Median
Sales Price/SF	\$79.90	\$79.90	\$75.57	\$74.14
GBA	2,328	2,328	2,494	2,600

Based on the matched pairs I find no indication of negative impact due to proximity to the solar farm.

The most similar comparable is the home on Columbus that sold for \$79.05 per square foot. This is higher than the median rate for all of the comparables. Applying that price per square foot to the subject property square footage indicates a value of \$184,000.

19. Matched Pair – Portage Solar, Portage, IN



This solar farm has a 2 MW output and is located on a portion of a 56-acre tract. The project was built in 2012.

I have considered the recent sale of Parcels 5 and 12. Parcel 5 is an undeveloped tract, while Parcel 12 is a residential home. I have compared each to a set of comparable sales to determine if there was any impact due to the adjoining solar farm. This home is 1,320 feet from the closest solar panel.

Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
12	64-06-19-326-007.000-015	1.00	Sep-13	\$149,800	1964	1,776	\$84.35

Nearby Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2501 Architect Dr	64-04-32-202-004.000-021	1.31	Nov-15	\$191,500	1959	2,064	\$92.78
336 E 1050 N	64-07-09-326-003.000-005	1.07	Jan-13	\$155,000	1980	1,908	\$81.24
2572 Pryor Rd	64-05-14-204-006.000-016	1.00	Jan-16	\$216,000	1960	2,348	\$91.99

Adjoining Land Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	\$/AC
5	64-06-19-200-003.000-015	18.70	Feb-14	\$149,600	\$8,000

Nearby Land Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	\$/AC
	64-07-22-401-001.000-005	74.35	Jun-17	\$520,450	\$7,000
	64-15-08-200-010.000-001	15.02	Jan-17	\$115,000	\$7,658

Residential Sale Adjustment Chart

TAX ID	Date Sold	Adjustments		\$/Sf
		Time	Total	
64-06-19-326-007.000-015	Sep-13	\$8,988	\$158,788	\$89.41
64-04-32-202-004.000-021	Nov-15	\$3,830	\$195,330	\$94.64
64-07-09-326-003.000-005	Jan-13	\$9,300	\$164,300	\$86.11
64-05-14-204-006.000-016	Jan-16		\$216,000	\$91.99

2% adjustment/year
Adjusted to 2017

	Adjoins Solar Farm		Not Adjoin Solar Farm	
	Average	Median	Average	Median
Sales Price/SF	\$89.41	\$89.41	\$90.91	\$91.99
GBA	1,776	1,776	2,107	2,064

After adjusting the price per square foot is 2.88% less for the home adjoining the solar farm versus those not adjoining the solar farm. This is within the typical range of variation to be anticipated in any real estate transaction and indicates no impact on property value.

Applying the price per square foot for the 336 E 1050 N sale, which is the most similar to the Parcel 12 sale, the adjusted price at \$81.24 per square foot applied to the Parcel 12 square footage yields a value of \$144,282.

Land Sale Adjustment Chart

TAX ID	Date Sold	Adjustments		\$/Acre
		Time	Total	
64-06-19-200-003.000-015	Feb-14	\$8,976	\$158,576	\$8,480
64-07-22-401-001.000-005	Jun-17		\$520,450	\$7,000
64-15-08-200-010.000-001	Jan-17		\$115,000	\$7,658

2% adjustment/year
Adjusted to 2017

	Adjoins Solar Farm		Not Adjoin Solar Farm	
	Average	Median	Average	Median
Sales Price/Ac	\$8,480	\$8,480	\$7,329	\$7,329
Acres	18.70	18.70	44.68	44.68

After adjusting the price per acre is higher for the property adjoining the solar farm, but the average and median size considered is higher which suggests a slight discount. This set of matched pair supports no indication of negative impact due to the adjoining solar farm.

Alternatively, adjusting the 2017 sales back to 2014 I derive an indicated price per acre for the comparables at \$6,580 per acre to \$7,198 per acre, which I compare to the unadjusted subject property sale at \$8,000 per acre.

20. Matched Pair – Dominion Indy III, Indianapolis, IN

This solar farm has an 8.6 MW output and is located on a portion of a 134-acre tract. The project was built in 2013.

There are a number of homes on small lots located along the northern boundary and I have considered several sales of these homes. I have compared those homes to a set of nearby not adjoining home sales as shown below. The adjoining homes that sold range from 380 to 420 feet from the nearest solar panel, with an average of 400 feet.

Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2	2013249	0.38	12/9/2015	\$140,000	2006	2,412	\$58.04
4	2013251	0.23	9/6/2017	\$160,000	2006	2,412	\$66.33
5	2013252	0.23	5/10/2017	\$147,000	2009	2,028	\$72.49
11	2013258	0.23	12/9/2015	\$131,750	2011	2,190	\$60.16
13	2013260	0.23	3/4/2015	\$127,000	2005	2,080	\$61.06
14	2013261	0.23	2/3/2014	\$120,000	2010	2,136	\$56.18

Nearby Not Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
5836 Sable Dr	2013277	0.14	Jun-16	\$141,000	2005	2,280	\$61.84
5928 Mosaic Pl	2013845	0.17	Sep-15	\$145,000	2007	2,280	\$63.60
5904 Minden Dr	2012912	0.16	May-16	\$130,000	2004	2,252	\$57.73
5910 Mosaic Pl	2000178	0.15	Aug-16	\$146,000	2009	2,360	\$61.86
5723 Minden Dr	2012866	0.26	Nov-16	\$139,900	2005	2,492	\$56.14

Adjustments

TAX ID	Date Sold	Time	Total	\$/Sf
2013249	12/9/2015	\$5,600	\$145,600	\$60.36
2013251	9/6/2017		\$160,000	\$66.33
2013252	5/10/2017		\$147,000	\$72.49
2013258	12/9/2015	\$5,270	\$137,020	\$62.57
2013260	3/4/2015	\$5,080	\$132,080	\$63.50
2013261	2/3/2014	\$7,200	\$127,200	\$59.55
2013277	6/1/2016	\$2,820	\$143,820	\$63.08
2013845	9/1/2015	\$5,800	\$150,800	\$66.14
2012912	5/1/2016	\$2,600	\$132,600	\$58.88
2000178	8/1/2016	\$2,920	\$148,920	\$63.10
2012866	11/1/2016	\$2,798	\$142,698	\$57.26

2% adjustment/year
Adjusted to 2017

	Adjoins Solar Farm		Not Adjoin Solar Farm	
	Average	Median	Average	Median
Sales Price/SF	\$64.13	\$63.03	\$61.69	\$63.08
GBA	2,210	2,163	2,333	2,280

This set of homes provides very strong indication of no impact due to the adjacency to the solar farm and includes a large selection of homes both adjoining and not adjoining in the analysis.

21. Matched Pair – Beetle-Shelby Solar, Cleveland County, NC



This project is located on Bachelor Road at Timber Drive, Mooresboro, NC. This is a 4 MW facility on a parent tract of 24 acres.

I have considered a custom home on a nearby property adjoining this solar farm. This home is located on 10.08 acres, was built in 2013, and has a gross living area of 3,196 s.f. This property sold on October 1, 2018 \$416,000. I compared this to several nearby homes of similar size on large lots as shown below.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	1715 Timber	10.08	10/1/2018	\$416,000	2013	3,196	\$130.16	4/3.5	2xGar	1.5 story	Pool, Scrn Prch
Not	1021 Posting	2.45	2/15/2019	\$414,000	2000	4,937	\$83.86	4/4.5	2xGar	1.5 story	Scrn Prch
Not	2521 Wood	3.25	7/30/2017	\$350,000	2003	3,607	\$97.03	4/4	4xGar	1.5 story	Pool, sunroom
Not	356 Whitaker	7.28	1/9/2017	\$340,000	1997	3,216	\$105.72	4/4	2xGar	Ranch	Pole barn

Adjoining Sales Adjusted

Time	Acres	YB	GLA	BR/BA	Park	Other	Total	% Diff
							\$416,000	
	\$15,000	\$37,674	-\$58,398	-\$10,000			\$398,276	4%
\$10,500	\$12,000	\$24,500	-\$15,952	-\$5,000	-\$5,000		\$371,048	11%
\$15,300	\$5,000	\$38,080	-\$846	-\$5,000			\$392,534	6%
							Average	7%

The data on these sales all show that the subject property adjoining the solar farm sold for more than these other comparable sales. These sales suggest a mild increase in value due to proximity to the solar farm; however, the subject property is a custom home with upgrades that would balance out that difference. I therefore conclude that these matched pairs support an indication of no impact on property value.

22. Matched Pair – Courthouse Solar, Gaston County, NC



This project is a 5 MW facility located on 161.92 acres on Tryon Courthouse Road near Bessemer City that was approved in late 2016 but has not yet been constructed due to delays in the power purchase agreement process with Duke Progress Energy.

I have considered a recent sale of a home (Parcel 13) located across from this approved solar farm project as well as an adjoining lot sale (Parcel 25) to the west of this approved project.

I compared the home sale to similar sized homes with similar exposure to county roads as shown below. I considered three similar sales that once adjusted for differences show a positive relationship due to proximity to the solar farm. The positive impact is less than 5% which is a standard deviation for real estate transaction and indicates no impact on property value.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
Adjoins	2134 Tryon Court.	0.85	3/15/2017	\$111,000	2001	1,272	\$87.26	3/2	Drive	Ranch
Not	214 Kiser	1.14	1/5/2017	\$94,000	1987	1,344	\$69.94	3/2	Drive	Ranch
Not	101 Windward	0.30	3/30/2017	\$104,000	1995	1,139	\$91.31	3/2	Drive	Ranch
Not	5550 Lennox	1.44	10/12/2018	\$115,000	2002	1,224	\$93.95	3/2	Drive	Ranch

Adjoining Residential Sales After Solar Farm Approved

Adjoining Sales Adjusted

Solar	Address	Acres	Date Sold	Sales Price	Time	Acres	YB	GLA	Total	% Diff
Adjoins	2134 Tryon Court.	0.85	3/15/2017	\$111,000					\$111,000	
Not	214 Kiser	1.14	1/5/2017	\$94,000	\$533		\$9,212	-\$1,511	\$102,234	8%
Not	101 Windward	0.30	3/30/2017	\$104,000	-\$128		\$4,368	\$5,615	\$113,855	-3%
Not	5550 Lennox	1.44	10/12/2018	\$115,000	-\$5,444		-\$805	-\$2,396	\$106,355	4%
									Average	3%

Similarly, I compared the lot sale to four nearby land sales. Parcel 25 could not be subdivided and was a single estate lot. There were a number of nearby lot sales along Weaver Dairy that sold for \$43,000 to \$30,000 per lot for 4-acre home lots. Estate lots typically sell at a base homesite rate

that would be represented by those prices plus a diminishing additional value per additional acre. The consideration of the larger tract more accurately illustrates the value per acre for larger tracts. After adjustments, the land sales show a mild positive impact on land value with an average increase of 9%, which supports a positive impact.

Adjoining Residential Land Sales After Solar Farm Approved						Adjoining Sales Adjusted				
Solar	Address	Acres	Date Sold	Sales Price	\$/Ac	Time	Acres	Total	% Diff	Note
Adjoins	5021 Buckland	9.66	3/21/2018	\$58,500	\$6,056			\$58,500		1 homesite only
Not	Campbell	6.75	10/31/2018	\$42,000	\$6,222	-\$773	\$18,107	\$59,333	-1%	
Not	Kiser	17.65	11/27/2017	\$69,000	\$3,909	\$647	-\$19,508	\$50,139	14%	6 acres less usable due to shape (50%)
Not	522 Weaver Dairy	3.93	2/26/2018	\$30,000	\$7,634	\$57	\$25,000	\$55,057	6%	
Not	779 Sunnyside	6.99	3/6/2017	\$34,000	\$4,864	\$1,062	\$12,987	\$48,049	18%	
Average									9%	

23. Matched Pair – Mariposa Solar, Gaston County, NC



This project is a 5 MW facility located on 35.80 acres out of a parent tract of 87.61 acres at 517 Blacksnsake Road, Stanley that was built in 2016.

I have considered a number of recent sales around this facility as shown below.

The first is identified in the map above as Parcel 1, which is 215 Mariposa Road. This is an older dwelling on large acreage with only one bathroom. I've compared it to similar nearby homes as shown below.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000	1958	1,551	\$160.54	3/1	Garage	Br/Rnch
Not	249 Mariposa	0.48	3/1/2019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnch
Not	110 Airport	0.83	5/10/2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnch
Not	1249 Blacksnsake	5.01	9/20/2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	1970	2,190	\$178.08	3/2	Crprt	Br/Rnch

Adjoining Residential Sales After Solar Farm Approved					Adjoining Sales Adjusted								
Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Acres	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000								\$249,000	
Not	249 Mariposa	0.48	3/1/2019	\$153,000	-\$5,583	-\$17,136	\$129,450	-\$20,576	-\$10,000			\$229,154	8%
Not	110 Airport	0.83	5/10/2016	\$166,000	\$7,927	-\$4,648	\$126,825	-\$47,078	-\$10,000			\$239,026	4%
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	-\$5,621	-\$37,345	\$95,475	-\$68,048	-\$10,000	\$5,000		\$221,961	11%
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	-\$4,552	-\$32,760	-\$69,450	-\$60,705	-\$10,000			\$212,533	15%
												Average	9%

The average difference after adjusting for all factors is +9% on average, which suggests an enhancement due to the solar farm across the street. Given the large adjustments for acreage and size, I will focus on the low end of the adjusted range at 4%, which is within the typical deviation and therefore suggests no impact on value.

I have also considered Parcel 4 that sold after the solar farm was approved but before it had been constructed in 2016.

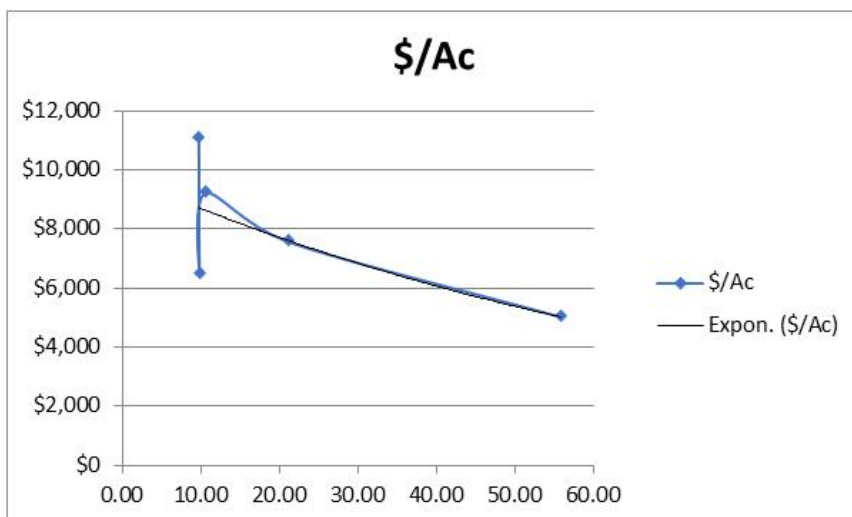
Adjoining Residential Sales After Solar Farm Approved												
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	
Adjoins	242 Mariposa	2.91	9/21/2015	\$180,000	1962	1,880	\$95.74	3/2	Carport	Br/Rnch	Det Wrkshop	
Not	249 Mariposa	0.48	3/1/2019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnch		
Not	110 Airport	0.83	5/10/2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnch		
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5		

Adjoining Residential Sales After Solar Farm Approved					Adjoining Sales Adjusted									
Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Acres	GLA	BR/BA	Park	Other	Total	% Diff	
Adjoins	242 Mariposa	2.91	9/21/2015	\$180,000								\$180,000		
Not	249 Mariposa	0.48	3/1/2019	\$153,000	-\$15,807	-\$12,852	\$18,468	\$7,513		-\$3,000	\$25,000	\$172,322	4%	
Not	110 Airport	0.83	5/10/2016	\$166,000	-\$3,165	\$0	\$15,808	-\$28,600			\$25,000	\$175,043	3%	
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	-\$21,825	-\$30,555	-\$15,960	-\$40,942		\$2,000	\$25,000	\$160,218	11%	
												Average	6%	

The average difference after adjusting for all factors is +6%, which is again suggests a mild increase in value due to the adjoining solar farm use. The median is a 4% adjustment, which is within a standard deviation and suggests no impact on property value.

I have also considered the recent sale of Parcel 13 that is located on Blacksnake Road south of the project. I was unable to find good land sales in the same 20 acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 20 acres. As can be seen in the chart below, this lines up exactly with the purchase of the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm.

Adjoining Residential Land Sales After Solar Farm Approved						Adjoining Sales Adjusted	
Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	\$/Ac
Adjoins	174339/Blacksnake	21.15	6/29/2018	\$160,000	\$7,565		\$7,565
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	\$38	\$9,215
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$37	\$6,447
Not	164243/Alexis	9.75	2/1/2019	\$110,000	\$11,282	-\$201	\$11,081
Not	176884/Bowden	55.77	6/13/2018	\$280,000	\$5,021	\$7	\$5,027

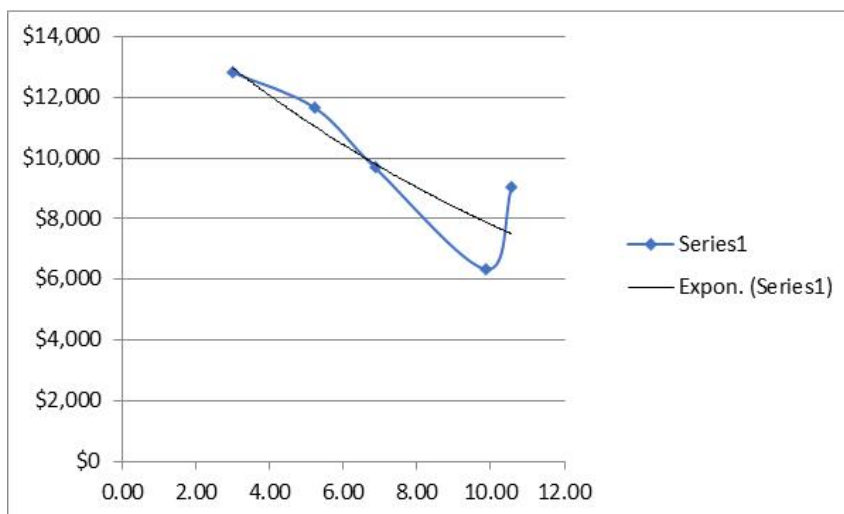


Finally, I have considered the recent sale of Parcel 17 that sold as vacant land. I was unable to find good land sales in the same 7 acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 7 acres. As can be seen in the chart below, this lines up with the trendline running right through the purchase price for the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm. I note that this property was improved with a 3,196 square foot ranch built in 2018 following the land purchase, which shows that development near the solar farm was unimpeded.

Adjoining Residential Land Sales After Solar Farm Approved

Adjoining Sales Adjusted

Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	Location	\$/Ac
Adjoins	227039/Mariposa	6.86	12/6/2017	\$66,500	\$9,694			\$9,694
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	-\$116		\$9,061
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$147		\$6,338
Not	177322/Robinson	5.23	5/12/2017	\$66,500	\$12,715	\$217	-\$1,272	\$11,661
Not	203386/Carousel	2.99	7/13/2018	\$43,500	\$14,548	-\$262	-\$1,455	\$12,832



24. Matched Pair – Clarke County Solar, Clarke County, VA



This project is a 20 MW facility located on a 234-acre tract that was built in 2017.

I have considered a recent sale of Parcel 3. The home on this parcel is 1,230 feet from the closest panel as measured in the second map from Google Earth, which shows the solar farm under construction.

I've compared this home sale to a number of similar rural homes on similar parcels as shown below. I have used multiple sales that bracket the subject property in terms of sale date, year built, gross living area, bedrooms and bathrooms. Bracketing the parameters insures that all factors are well balanced out in the adjustments. The trend for these sales shows a positive value for the adjacency to the solar farm.

Adjoining Residential Sales After Solar Farm Approved

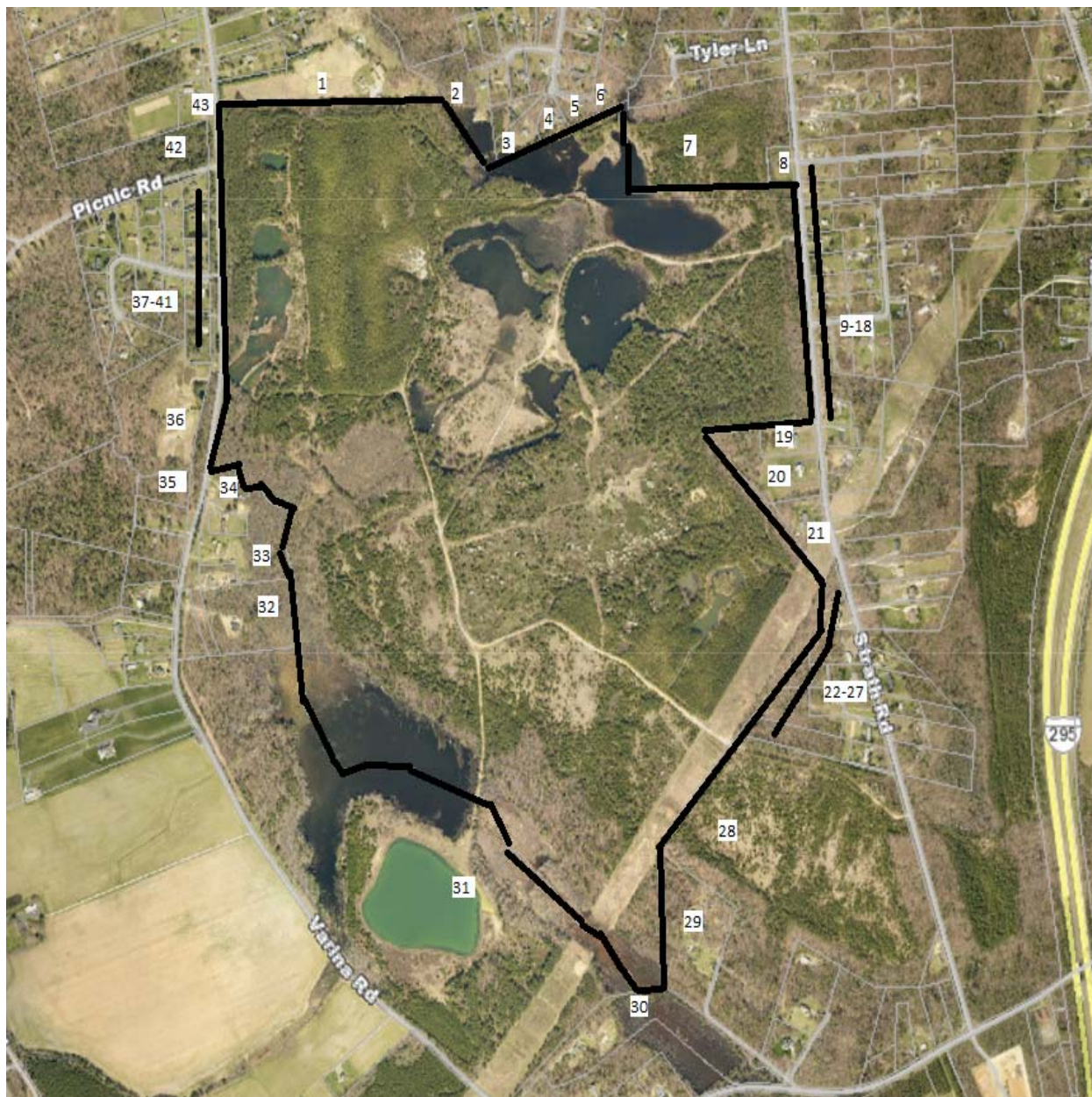
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	833 Nations Spr	5.13	1/9/2017	\$295,000	1979	1,392	\$211.93	3/2	Det Gar	Ranch	Unfin bsmt
Not	85 Ashby	5.09	9/11/2017	\$315,000	1982	2,333	\$135.02	3/2	2 Gar	Ranch	
Not	541 Old Kitchen	5.07	9/9/2018	\$370,000	1986	3,157	\$117.20	4/4	2 Gar	2 story	
Not	4174 Rockland	5.06	1/2/2017	\$300,000	1990	1,688	\$177.73	3/2	3 Gar	2 story	
Not	400 Sugar Hill	1.00	6/7/2018	\$180,000	1975	1,008	\$178.57	3/1	Drive	Ranch	

Adjoining Residential Sales After Solar Farm Approved

Adjoining Sales Adjusted

Solar	Address	Acres	Date Sold	Sales Price	Time	Acres	YB	GLA	BR/BA	Park	Other	Total	% Diff	
Adjoins	833 Nations Spr	5.13	1/9/2017	\$295,000								\$295,000		
Not	85 Ashby	5.09	9/11/2017	\$315,000	-\$6,300			-\$6,615	-\$38,116		-\$7,000	\$15,000	\$271,969	8%
Not	541 Old Kitchen	5.07	9/9/2018	\$370,000	-\$18,500			-\$18,130	-\$62,057		-\$7,000	\$15,000	\$279,313	5%
Not	4174 Rockland	5.06	1/2/2017	\$300,000				-\$23,100	-\$15,782		-\$12,000	\$15,000	\$264,118	10%
Not	400 Sugar Hill	1.00	6/7/2018	\$180,000	-\$9,000	\$43,000	\$5,040	\$20,571	\$10,000	\$3,000	\$15,000	\$267,611	9%	
												Average	8%	

25. Matched Pair – Turner Solar, Henrico County, VA



This project is a 20 MW facility located on 250 acres of a 463-acre parent tract that was approved in July 2018 and proposed to be constructed in 2019.

I have considered a recent sale of Parcel 15. The home on this parcel is 1,540 feet from the closest panel as measured on the site plan.

I've compared this home sale to a number of similar rural homes on similar parcels as shown below. I have used multiple sales that bracket the subject property in terms of sale date, year built, gross living area, bedrooms and bathrooms. Bracketing the parameters insures that all factors are well balanced out in the adjustments. The trend for these sales shows a neutral impact on value for the adjacency to the solar farm.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	8573 Strath	1.06	2/4/2019	\$204,900	1976	1,539	\$133.14	3/2	Drive	Br Ranch	Renov
Before	8501 Strath	0.82	5/2/2016	\$125,000	1974	912	\$137.06	3/1	Drive	Ranch	
Not	9300 Varina	1.03	12/17/2018	\$186,000	1964	1,442	\$128.99	3/1.5	Drive	Br Ranch	Renov
Not	2340 Mill	2.50	4/10/2018	\$179,500	1952	1,706	\$105.22	3/2.5	2 Gar	Br Ranch	2 Det Gar

Adjoining Residential Sales After Solar Farm Approved Adjoining Sales Adjusted

Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Style	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	8573 Strath	1.06	2/4/2019	\$204,900								\$204,900	
Before	8501 Strath	0.82	5/2/2016	\$125,000	\$13,750	\$1,750	\$6,250	\$25,781	\$10,000		\$20,000	\$202,531	1%
Not	9300 Varina	1.03	12/17/2018	\$186,000	\$1,860	\$15,624		\$3,754				\$207,238	-1%
Not	2340 Mill	2.50	4/10/2018	\$179,500	\$1,296	\$30,156		-\$5,271		-\$10,000	\$10,000	\$205,681	0%
Average													0%

26. Matched Pair – Flemington Solar, Flemington, NJ



This solar farm is located off Kuhl Road and is south of Hart Boulevard. I spoke with Gerry Giles a local realtor who is familiar with the adjoining neighborhood as she has lived in that neighborhood. She indicated that in her opinion the adjoining solar farm is a quiet neighbor and would not have a negative impact on property value.

Furthermore, I spoke with her specifically about the recent sale of 10 Coventry, which I have included in the matched pairs. She noted that the seller was a divorced bachelor who had set the place up like a dorm and that it showed terribly. She believes proper staging of the interior would have significantly improved the sales price on this home. I adjusted for that factor in the comparables in that analysis based on that information.

I have identified four recent sales of homes adjoining this subdivision along Hart Boulevard and the side streets off of Hart Boulevard.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
8	Adjoins	10 Coventry	0.36	3/19/2018	\$370,000	1986	1,829	\$202.30	3/2.5	2-Gar	2-Story	Staging
	Not	58 Wellington	0.45	6/8/2018	\$334,500	1984	1,757	\$190.38	3/2.5	2-Gar	2-Story	
	Not	28 Bristol	0.35	1/17/2018	\$398,000	1985	1,757	\$226.52	3/2.5	2-Gar	2-Story	
	Not	1 Sheffield	0.35	12/15/2017	\$399,900	1984	1,870	\$213.85	4/2.5	2-Gar	2-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$370,000			295
-\$2,283	\$3,345	\$8,224			-\$10,035	\$333,751	10%		
\$2,046	\$1,990	\$9,786			-\$11,940	\$399,882	-8%		
\$3,168	\$3,999	-\$5,261			-\$11,997	\$389,809	-5%	-1%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
14	Adjoins	54 Hart	0.36	7/25/2016	\$420,000	1986	2,680	\$156.72	4/2.5	2-Gar	2-Story	
	Not	43 Aberdeen	0.36	11/21/2016	\$417,000	1987	2,524	\$165.21	4/2.5	2-Gar	2-Story	
	Not	42 Aberdeen	0.34	2/7/2017	\$454,900	1988	2,734	\$166.39	5/3	2-Gar	2-Story	
	Not	18 Aberdeen	0.34	11/6/2017	\$437,500	1988	2,687	\$162.82	4/2.5	2-Gar	2-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$420,000			375
-\$4,182	-\$2,085	\$15,464				\$426,197	-1%		
-\$7,552	-\$4,549	-\$5,391	-\$5,000			\$432,408	-3%		
-\$17,291	-\$4,375	-\$684				\$415,150	1%	-1%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
16	Adjoins	6 Portsmouth	0.36	6/19/2015	\$410,000	1991	2,687	\$152.59	4/2.5	2-Gar	2-Story	
	Not	43 Aberdeen	0.36	11/21/2016	\$417,000	1987	2,524	\$165.21	4/2.5	2-Gar	2-Story	
	Not	42 Aberdeen	0.34	2/7/2017	\$454,900	1988	2,734	\$166.39	5/3	2-Gar	2-Story	
	Not	18 Aberdeen	0.34	11/6/2017	\$437,500	1988	2,687	\$162.82	4/2.5	2-Gar	2-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$410,000			425
-\$18,308	\$8,340	\$16,158				\$423,190	-3%		
-\$22,962	\$6,824	-\$4,692	-\$5,000			\$429,069	-5%		
-\$32,112	\$6,563	\$0				\$411,950	0%	-3%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
19	Adjoins	12 Stratford	0.55	11/30/2017	\$414,900	1991	1,828	\$226.97	3/2.5	2-Gar	2-Story	
	Not	58 Wellington	0.45	6/8/2018	\$334,500	1984	1,757	\$190.38	3/2.5	2-Gar	2-Story	
	Not	28 Bristol	0.35	1/17/2018	\$398,000	1985	1,757	\$226.52	3/2.5	2-Gar	2-Story	
	Not	1 Sheffield	0.35	12/15/2017	\$399,900	1984	1,870	\$213.85	4/2	Gar	2-Story	

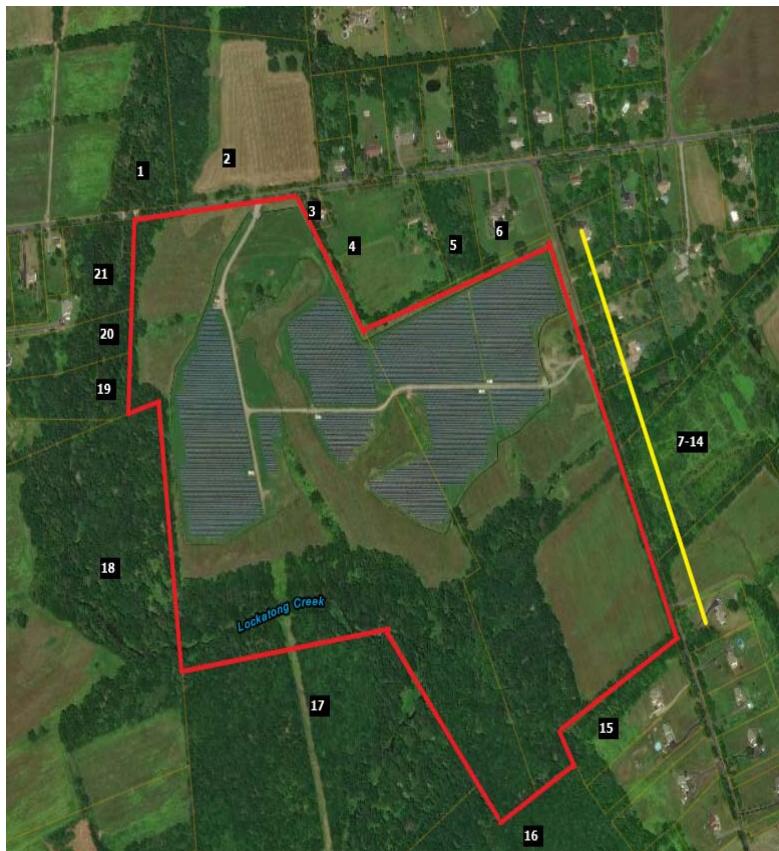
Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$414,900			345
-\$5,356	\$11,708	\$8,110				\$348,962	16%		
-\$1,610	\$11,940	\$9,650				\$417,980	-1%		
-\$505	\$13,997	-\$5,389	\$5,000	\$7,000		\$420,002	-1%	5%	

The range of impact identified by these matched pairs ranges are therefore -3% to +5% for distances ranging from 295 feet to 425 feet with an average difference from these four indicators of 0%. As noted earlier this range is within the typical plus or minus for any real estate transaction and indicates no impact on property value.

The broker Gerry Giles indicated that she has not seen the solar farm having any impact on adjoining property value. She noted that the solar farm is visible from Hart Boulevard and from a number of these backyards, but is still heavily screened.

27. Matched Pair – Frenchtown Solar, Frenchtown, NJ



This solar farm is located off Muddy Run Road. I spoke with Gerry Giles a local realtor who helped a buyer purchase 5 Muddy Town Road. She indicated that his home adjoining the solar farm had multiple offers and that most of those offers were higher than the offer she presented, but her buyer provided an all cash offer. This was important as the property was being purchased while the septic system required repairs and updates that the seller paid for but completed the work during/after the purchase. The solar farm was not considered a negative by her buyer.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
7	Adjoins	5 Muddy Run	2.14	6/23/2017	\$385,000	1985	2,044	\$188.36	4/2.5	2-Gar	2-Story	Updated
	Not	319 Barbertown	2.00	5/21/2019	\$358,000	1988	2,240	\$159.82	4/3	Gar	2-Story	
	Not	132 Kingwood	3.17	10/31/2016	\$380,000	1996	2,392	\$158.86	3/2.5	Det 2	2-Story	
	Not	26 Barbertown	2.03	5/21/2019	\$360,000	1998	2,125	\$169.41	4/3	2-Gar	2-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$385,000			250
-\$13,673	-\$5,370	-\$18,795	-\$5,000	\$10,000	\$20,000	\$345,162	10%		
\$4,893	-\$20,900	-\$33,171		\$5,000	\$20,000	\$355,823	8%		
-\$13,749	-\$23,400	-\$8,233	-\$5,000		\$20,000	\$329,618	14%		
								11%	

After typical adjustments including a \$20,000 increase in the comparable sales for updates, the subject property is showing a significant premium that may be attributable to the adjoining solar farm.

28. Matched Pair – McGraw Solar, East Windsor, NJ



This solar farm is located off Oak Creek Road. The matched pairs considered at this solar farm involve the townhome/duplexes located off Wyndmoor Drive and a single family home off Wilmor Drive.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
	Adjoins	153 Wyndmoor	N/A	4/25/2017	\$215,000	1987	1,532	\$140.34	3/3	Gar	2-Story
	Not	164 Wyndmoor	N/A	5/13/2019	\$258,000	1987	1,532	\$168.41	3/3	Gar	2-Story
	Not	33 Monroe	N/A	2/6/2018	\$261,000	1987	1,532	\$170.37	3/3	Gar	2-Story
	Not	20 Spyglass	N/A	12/19/2017	\$240,000	1987	1,532	\$156.66	3/3	Gar	2-Story

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$215,000			175
-\$15,862	\$0	\$0				\$242,138	-13%		
-\$6,157	\$0	\$0				\$254,843	-19%		
-\$4,695	\$0	\$0				\$235,305	-9%	-14%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
	Adjoins	149 Wyndmoor	N/A	5/24/2017	\$206,000	1987	1,236	\$166.67	2/1.5	Gar	2-Story
	Not	97 Wyndmoor	N/A	4/17/2017	\$210,000	1987	1,236	\$169.90	2/1.5	Gar	2-Story
	Not	24 Monroe	N/A	12/23/2016	\$217,979	1987	1,560	\$139.73	3/2.5	Gar	2-Story
	Not	81 Wyndmoor	N/A	1/31/2018	\$204,000	1987	1,254	\$162.68	2/2.5	Gar	2-Story

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$206,000			175
\$639	\$0	\$0				\$210,639	-2%		
\$2,723	\$0	-\$27,164				\$193,539	6%		
-\$4,225	\$0	-\$1,757				\$198,018	4%	3%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
	Adjoins	26 Wilmor	0.46	3/19/2019	\$286,000	1961	1,092	\$261.90	3/1.5	Gar	Ranch
	Not	25 Pinehurst	0.48	5/17/2019	\$315,000	1967	1,314	\$239.73	3/1&2	Gar	Ranch
	Not	15 Maple Stream	0.40	6/6/2017	\$285,000	1964	1,202	\$237.10	3/1.5	Gar	Ranch
	Not	3 Amy	0.29	10/11/2018	\$286,000	1969	1,229	\$232.71	3/1.5	Gar	Ranch

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$286,000			400
-\$1,566	-\$9,450	-\$31,932	-\$5,000			\$267,052	7%		
\$15,635	-\$4,275	-\$15,649				\$280,711	2%		
\$3,832	-\$11,440	-\$19,129				\$259,263	9%	6%	
						Average		-2%	250

The range of impact identified by these matched pairs ranges are therefore -14% to +6% for distances ranging from 175 feet to 400 feet with an average difference from these three indicators of -2%. As noted earlier this range is within the typical plus or minus for any real estate transaction and indicates no impact on property value.

This set of matched pairs is interesting and there appears to be more going on when you compare the two townhome properties. One shows a significant discount and the other shows no impact. When I compare the two townhomes that both back up to the same solar farm, the townhome that includes 1,532 s.f. sold for only \$9,000 more than the townhome that has 1,236 s.f. I attempted to speak with the broker involved with these but was unable to get a reply. The difference there strongly indicates that something else is going on with the larger townhome. I will not rely heavily on that matched pair, but I have included it to be complete.

29. Matched Pair – Tinton Falls Solar, Tinton Falls, NJ



This solar farm is located off W. Park Avenue. The tract with the solar farm also has a condo/townhome project from which I have considered recent sales activity. I note that the developer of the solar farm and the townhome community clearly did not see any negative impact from the combined use. These units are still being constructed with new sales expected in the near future.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	111 Kyle	N/A	8/8/2018	\$402,000	2015	2,200	\$182.73	3/2.5	Gar	3-Story	End
	Not	80 Kyle	N/A	9/18/2017	\$410,000	2015	2,226	\$184.19	2/2.5	Gar	3-Story	End/Park
	Not	15 Michael	N/A	9/19/2018	\$412,000	2016	2,157	\$191.01	3/2.5	Gar	3-Story	End
	Not	31 Michael	N/A	4/1/2019	\$390,000	2016	2,200	\$177.27	3/2.5	Gar	3-Story	End
	Not	15 Michael	N/A	9/9/2018	\$412,000	2016	2,157	\$191.01	3/2.5	Gar	3-Story	End

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$402,000			185
\$11,194	\$0	-\$2,873			-\$20,500	\$397,821	1%		
-\$1,458	-\$2,060	\$4,928				\$413,410	-3%		
-\$7,756	-\$1,950	\$0				\$380,294	5%		
-\$1,111	-\$2,060	\$4,928				\$413,757	-4%		

1%

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	47 Kyle	N/A	8/31/2018	\$260,000	2016	1,140	\$228.07	2/2	Gar	3-Story	End
	Not	26 Jake	N/A	10/31/2017	\$268,000	2014	1,140	\$235.09	2/2	Gar	3-Story	End
	Not	4 Michael	N/A	11/8/2018	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	End
	Not	36 Kyle	N/A	1/10/2019	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$260,000			155
\$6,866	\$2,680	\$0				\$277,546	-7%		
-\$1,512	\$1,300	\$0				\$259,788	0%		
-\$2,892	\$1,300	\$0			\$7,800	\$266,208	-2%	-3%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	7 Kyle	N/A	6/15/2017	\$262,195	2017	1,140	\$230.00	2/2	Gar	3-Story	End
	Not	26 Jake	N/A	10/31/2017	\$268,000	2014	1,140	\$235.09	2/2	Gar	3-Story	End
	Not	4 Michael	N/A	11/8/2018	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	End
	Not	36 Kyle	N/A	1/10/2019	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$262,195			150
-\$3,117	\$4,020	\$0				\$268,903	-3%		
-\$11,196	\$2,600	\$0	-\$5,000			\$246,404	6%		
-\$12,576	\$2,600	\$0			\$7,800	\$257,824	2%	2%	

Adjoining Residential Sales After Solar Farm Approved

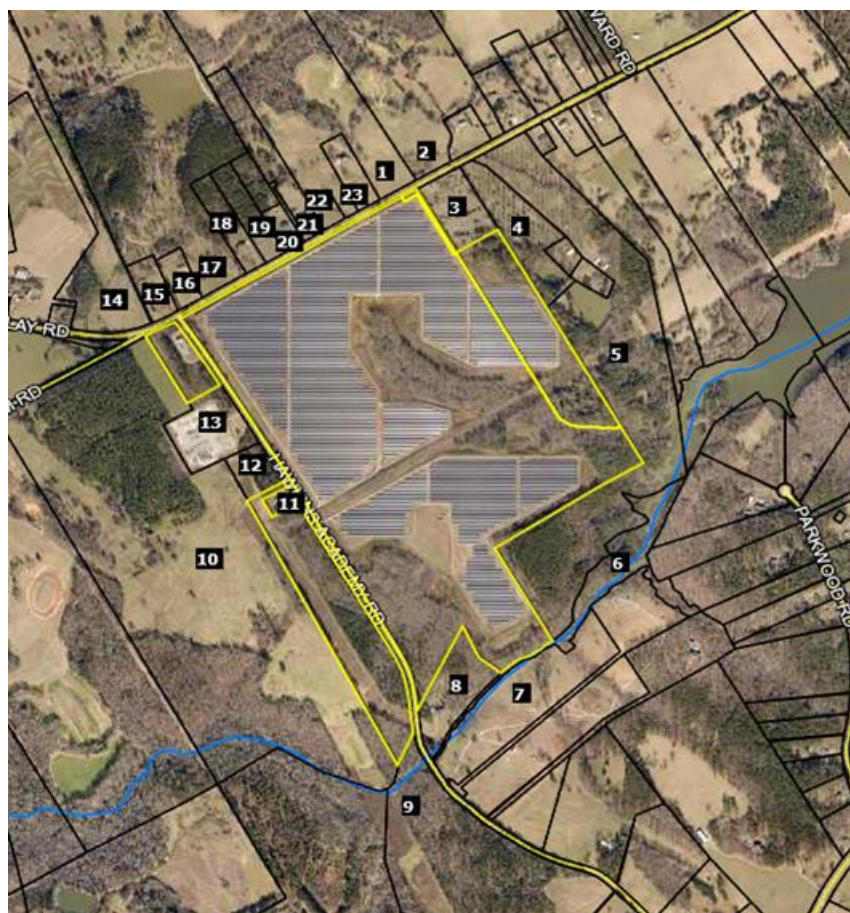
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	1 Samantha	N/A	9/1/2017	\$258,205	2017	1,140	\$226.50	2/2	Gar	3-Story	End
	Not	26 Jake	N/A	10/31/2017	\$268,000	2014	1,140	\$235.09	2/2	Gar	3-Story	End
	Not	4 Michael	N/A	11/8/2018	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	End
	Not	36 Kyle	N/A	1/10/2019	\$260,000	2015	1,140	\$228.07	2/2	Gar	3-Story	

Adjoining Sales Adjusted

Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
						\$258,205			155
-\$1,355	\$4,020	\$0	-\$5,000			\$265,665	-3%		
-\$9,487	\$2,600	\$0				\$253,113	2%		
-\$10,867	\$2,600	\$0			\$7,800	\$259,533	-1%	0%	

The range of impact identified by these matched pairs ranges are therefore -3% to +2% for distances ranging from 150 feet to 185 feet with an average difference from these four indicators of 0%. As noted earlier this range is within the typical plus or minus for any real estate transaction and indicates no impact on property value.

30. Matched Pair – Simon Solar, Social Circle, GA



This solar farm is located off Hawkins Academy Road and Social Circle Fairplay Road. I identified three adjoining sales to this tract after development of the solar farm. However, one of those is shown as Parcel 12 in the map above and includes a powerline easement encumbering over a third of the 5 acres and adjoins a large substation as well. It would be difficult to isolate those impacts from any potential solar farm impact and therefore I have excluded that sale. I also excluded the recent sale of Parcel 17, which is a farm with conservation restrictions on it that similarly would require a detailed examination of those conservation restrictions in order to see if there was any impact related to the solar farm. I therefore focused on the recent sale of Parcel 7 and the adjoining parcel to the south of that. They are technically not adjoining due to the access road for the flag-shaped lot to the east. Furthermore, there is an apparent access easement serving the two rear lots that encumber these two parcels which is a further limitation on these sales. This analysis assumes that the access easement does not negatively impact the subject property, though it may.

Adjoining Land Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	Type	Other
7+	Adjoins	4514 Hawkins	36.86	3/31/2016	\$180,000	\$4,883	Pasture	Esmts
	Not	HD Atha	69.95	12/20/2016	\$357,500	\$5,111	Wooded	N/A
	Not	Pannell	66.94	11/8/2016	\$322,851	\$4,823	Mixed	*
	Not	1402 Roy	123.36	9/29/2016	\$479,302	\$3,885	Mixed	**

* Adjoining 1 acre purchased by same buyer in same deed. Allocation assigned on the County Tax Record.

** Dwelling built in 1996 with a 2016 tax assessed value of \$75,800 deducted from sales price to reflect land value

Adjoining Sales Adjusted						Avg
Time	Size	Type	Other	Total/Ac	% Diff	% Diff
				\$4,883		
\$89	\$256			\$5,455	-12%	
-\$90	\$241			\$4,974	-2%	
-\$60	\$389			\$4,214	14%	
						0%

The range of impact identified by these matched pairs ranges are therefore -12% to +14% for with an average of 0%. The best matched pair with the least adjustment supports a -2% impact due to the solar farm. I note again that this analysis considers no impact for the existing access easements that meander through this property and it may be having an impact. Still at -2% impact as the best indication for the solar farm, I consider that to be no impact given that market fluctuations support +/- 5%.

31. Matched Pair – Candace Solar, Princeton, NC



This solar farm is located at 4839 US 70 Highway just east of Herring Road. This solar farm was completed on October 25, 2016.

I identified three adjoining sales to this tract after development of the solar farm with frontage on US 70. I did not attempt to analyze those sales as they have exposure to an adjacent highway and railroad track. Those homes are therefore problematic for a matched pair analysis unless I have similar homes fronting on a similar corridor.

I did consider a land sale and a home sale on adjoining parcels without those complications.

The lot at 499 Herring Road sold to Paradise Homes of Johnston County of NC, Inc. for \$30,000 in May 2017 and a modular home was placed there and sold to Karen and Jason Toole on September 29, 2017. I considered the lot sale first as shown below and then the home sale that followed.

Adjoining Land Sales After Solar Farm Approved						Adjoining Sales Adjusted					
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Other	Time	Site	Other	Total	% Diff
16	Adjoins	499 Herring	2.03	5/1/2017	\$30,000					\$30,000	
	Not	37 Becky	0.87	7/23/2019	\$24,500	Sub/Pwr	-\$1,679	\$4,900		\$27,721	8%
	Not	5858 Bizzell	0.88	8/17/2016	\$18,000		\$390	\$3,600		\$21,990	27%
	Not	488 Herring	2.13	12/20/2016	\$35,000		\$389			\$35,389	-18%
Average											5%

Following the land purchase, the modular home was placed on the site and sold. I have compared this modular home to the following sales to determine if the solar farm had any impact on the purchase price.

Adjoining Residential Sales After Solar Farm Approved												
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
16	Adjoins	499 Herring	2.03	9/27/2017	\$215,000	2017	2,356	\$91.26	4/3	Drive	Modular	
	Not	678 WC	6.32	3/8/2019	\$226,000	1995	1,848	\$122.29	3/2.5	Det Gar	Mobile	Ag bldgs
	Not	1810 Bay V	8.70	3/26/2018	\$170,000	2003	2,356	\$72.16	3/2	Drive	Mobile	Ag bldgs
	Not	1795 Bay V	1.78	12/1/2017	\$194,000	2017	1,982	\$97.88	4/3	Drive	Modular	

Adjoining Residential Sales Af Adjoining Sales Adjusted												
Parcel	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
16	Adjoins	499 Herring								\$215,000		
	Not	678 WC	-\$10,037	-\$25,000	\$24,860	\$37,275	-\$5,000	-\$7,500	-\$20,000	\$220,599	-3%	
	Not	1810 Bay V	-\$2,579	-\$20,000	\$11,900	\$0				\$159,321	26%	
	Not	1795 Bay V	-\$1,063		\$0	\$21,964				\$214,902	0%	
Avg												8%

The best comparable is 1795 Bay Valley as it required the least adjustment and was therefore most similar, which shows a 0% impact. This signifies no impact related to the solar farm.

The range of impact identified by these matched pairs ranges are therefore -3% to +26% with an average of +8% for the home and an average of +4% for the lot, though the best indicator for the lot shows a \$5,000 difference in the lot value due to the proximity to the solar farm or a -12% impact.

32. Matched Pair – Crittenden Solar, Crittenden, KY



This solar farm was built in December 2017 on a 181.70-acre tract but utilizing only 34.10 acres. This is a 2.7 MW facility with residential subdivisions to the north and south.

I have identified four home sales to the north of this solar farm on Claiborne Drive and one home sale to the south on Eagle Ridge Drive since the completion of this solar farm. The home sale on Eagle Drive is for a \$75,000 home and all of the homes along that street are similar in size and price range. According to local broker Steve Glacken with Cutler Real Estate these are the lowest price range/style home in the market. I have not analyzed that sale as it would unlikely provide significant data to other homes in the area.

Mr. Glacken is currently selling lots at the west end of Claiborne for new home construction. He indicated that the solar farm near the entrance of the development has been a complete non-factor and none of the home sales are showing any concern over the solar farm. Most of the homes are in the \$250,000 to \$280,000 price range on lots being marketed for \$28,000 to \$29,000.

The first home considered is a bit of an anomaly for this subdivision in that it is the only manufactured home that was allowed in the community. It sold on January 3, 2019. I compared that sale to three other manufactured home sales in the area making minor adjustments as shown on the next page to account for the differences. After all other factors are considered the adjustments show a -1% to +13% impact due to the adjacency of the solar farm. The best indicator is 1250 Cason, which shows a 3% impact. A 3% impact is within the normal static of real estate transactions and therefore not considered indicative of a positive impact on the property, but it strongly supports an indication of no negative impact.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	250 Claiborne	0.96	1/3/2019	\$120,000	2000	2,016	\$59.52	3/2	Drive	Manuf	
	Not	1250 Cason	1.40	4/18/2018	\$95,000	1994	1,500	\$63.33	3/2	2-Det	Manuf	Carport
	Not	410 Reeves	1.02	11/27/2018	\$80,000	2000	1,456	\$54.95	3/2	Drive	Manuf	
	Not	315 N Fork	1.09	5/4/2019	\$107,000	1992	1,792	\$59.71	3/2	Drive	Manuf	

Adjustments											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	250 Claiborne								\$120,000			373
Not	1250 Cason	\$2,081		\$2,850	\$26,144		-\$5,000	-\$5,000	\$116,075	3%		
Not	410 Reeves	\$249		\$0	\$24,615				\$104,865	13%		
Not	315 N Fork	-\$1,091		\$4,280	\$10,700				\$120,889	-1%		
											5%	

I also looked at three other home sales on this street as shown below. These are stick-built homes and show a higher price range.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	300 Claiborne	1.08	9/20/2018	\$213,000	2003	1,568	\$135.84	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	Ranch	Brick
	Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick

Adjustments											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	300 Claiborne								\$213,000			488
Not	460 Claiborne	-\$2,026		-\$4,580	\$15,457	\$5,000			\$242,850	-14%		
Not	2160 Sherman	-\$5,672		-\$2,650	-\$20,406				\$236,272	-11%		
Not	215 Lexington	\$1,072		\$3,468	-\$2,559	-\$5,000			\$228,180	-7%		
											-11%	

This set of matched pairs shows a minor negative impact for this property. I was unable to confirm the sales price or conditions of this sale. The best indication of value is based on 215 Lexington, which required the least adjusting and supports a -7% impact.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	350 Claiborne	1.00	7/20/2018	\$245,000	2002	1,688	\$145.14	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick

Adjustments											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	350 Claiborne								\$245,000			720
Not	460 Claiborne	-\$3,223		-\$5,725	\$30,660	\$5,000			\$255,712	-4%		
Not	2160 Sherman	-\$7,057		-\$3,975	-\$5,743				\$248,225	-1%		
Not	215 Lexington	-\$136		\$2,312	\$11,400	-\$5,000			\$239,776	2%		
											-1%	

This set of matched pairs shows a no negative impact for this property. The range of adjusted impacts is -4% to +2%. The best indication is -1%, which as described above is within the typical market static and supports no impact on adjoining property value.

Adjoining Residential Sales After Solar Farm Approved

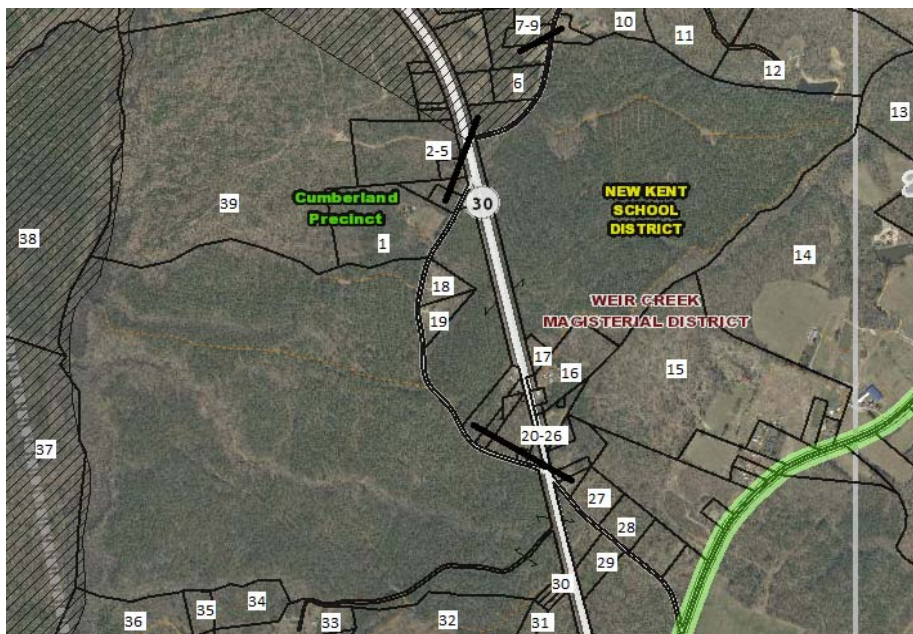
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	370 Claiborne	1.06	8/22/2019	\$273,000	2005	1,570	\$173.89	4/3	2-Car	2-Story	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	2290 Dry	1.53	5/2/2019	\$239,400	1988	1,400	\$171.00	3/2.5	2-Car	R/FBsmt	Brick
	Not	125 Lexington	1.20	4/17/2018	\$240,000	2001	1,569	\$152.96	3/3	2-Car	Split	Brick

Adjustments											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	370 Claiborne								\$273,000			930
Not	2160 Sherman	\$1,831		\$0	-\$20,161				\$246,670	10%		
Not	2290 Dry	\$2,260		\$20,349	\$23,256	\$2,500			\$287,765	-5%		
Not	125 Lexington	\$9,951		\$4,800					\$254,751	7%		
											4%	

This set of matched pairs shows a positive impact for this property. The range of adjusted impacts is -5% to +10%. The best indication is +7%. I typically consider measurements of +/-5% to be within the typical static of real estate transactions. This indication is higher than that and suggests a positive relationship.

The four matched pairs considered in this analysis includes two that show no impact on value, one that shows a negative impact on value, and one that shows a positive impact. The negative indication supported by one matched pair is -7% and the positive impact of another is +7%. The two neutral indications show impacts of -1% and +3%. The average indicated impact is +1% when all four of these indicators are blended.

33. Matched Pair – Walker-Correctional Solar, Barham Road, Barhamsville, VA



This project was built in 2017 and located on 484.65 acres for a 20 MW with the closest home at 110 feet from the closest solar panel with an average distance of 500 feet.

I considered the recent sale identified on the map above as Parcel 19, which is directly across the street and based on the map shown on the following page is 250 feet from the closest panel. A limited buffering remains along the road with natural growth being encouraged, but currently the panels are visible from the road. Alex Uminski, SRA with MGMiller Valuations in Richmond VA confirmed this sale with the buying and selling broker. The selling broker indicated that the solar farm was not a negative influence on this sale and in fact the buyer noticed the solar farm and then discovered the listing. The privacy being afforded by the solar farm was considered a benefit by the buyer. I used a matched pair analysis with a similar sale nearby as shown below and found no negative impact on the sales price. Property actually closed for more than the asking price.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	5241 Barham	2.65	10/18/2018	\$264,000	2007	1,660	\$159.04	3/2	Drive	Ranch	Modular
Not	17950 New Kent	5.00	9/5/2018	\$290,000	1987	1,756	\$165.15	3/2.5	3 Gar	Ranch	
Not	9252 Ordinary	4.00	6/13/2019	\$277,000	2001	1,610	\$172.05	3/2	1.5-Gar	Ranch	
Not	2416 W Miller	1.04	9/24/2018	\$299,000	1999	1,864	\$160.41	3/2.5	Gar	Ranch	

Adjoining Sales Adjusted

Solar	Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
Adjoins	5241 Barham								\$264,000		250
Not	17950 New Kent		-\$8,000	\$29,000	-\$4,756	-\$5,000	-\$20,000	-\$15,000	\$266,244	-1%	
Not	9252 Ordinary	-\$8,310	-\$8,000	\$8,310	\$2,581		-\$10,000	-\$15,000	\$246,581	7%	
Not	2416 W Miller		\$8,000	\$11,960	-\$9,817	-\$5,000	-\$10,000	-\$15,000	\$279,143	-6%	

Average Diff 0%



I also spoke with Patrick W. McCrerey of Virginia Estates who was marketing a property that sold at 5300 Barham Road adjoining the Walker-Correctional Solar Farm. He indicated that this property was unique with a home built in 1882 and heavily renovated and updated on 16.02 acres. The solar farm was through the woods and couldn't be seen by this property and it had no impact on marketing this property. This home sold on April 26, 2017 for \$358,000. I did not set up any matched pairs for this property as it was such a unique property that any such comparison would be difficult to rely on. The broker's comments do support the assertion that the adjoining solar farm had no impact on value. The home in this case was 510 feet from the closest panel.

34. Matched Pair – Innovative Solar 46, Roslin Farm Rd, Hope Mills, NC



This project was built in 2016 and located on 532 acres for a 78.5 MW solar farm with the closest home at 125 feet from the closest solar panel with an average distance of 423 feet.

I considered the recent sale of a home on Roslin Farm Road just north of Running Fox Road as shown below. This sale supports an indication of no impact on property value.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	6849 Roslin Farm	1.00	2/18/2019	\$155,000	1967	1,610	\$96.27	3/3	Drive	Ranch	Brick	435
Not	6592 Sim Canady	2.43	9/5/2017	\$185,000	1974	2,195	\$84.28	3/2	Gar	Ranch	Brick	
Not	1614 Joe Hall	1.63	9/3/2019	\$145,000	1974	1,674	\$86.62	3/2	Det Gar	Ranch	Brick	
Not	109 Bledsoe	0.68	1/17/2019	\$150,000	1973	1,663	\$90.20	3/2	Gar	Ranch	Brick	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	6849 Roslin Farm								\$155,000		5%
Not	6592 Sim Canady	\$8,278		-\$6,475	-\$39,444	\$10,000	-\$5,000		\$152,359	2%	
Not	1614 Joe Hall	-\$2,407		-\$5,075	-\$3,881	\$10,000	-\$2,500		\$141,137	9%	
Not	109 Bledsoe	\$404	\$10,000	-\$4,500	-\$3,346		-\$5,000		\$147,558	5%	

35. Matched Pair – Innovative Solar 42, County Line Rd, Fayetteville, NC



This project was built in 2017 and located on 413.99 acres for a 71 MW with the closest home at 135 feet from the closest solar panel with an average distance of 375 feet.

I considered the recent sales identified on the map above as Parcels 2 and 3, which is directly across the street these homes are 330 and 340 feet away. Parcel 2 includes an older home built in 1976, while Parcel 3 is a new home built in 2019. So the presence of the solar farm had no impact on new construction in the area.

The matched pairs for each of these are shown below followed by a more recent map showing the panels at this site.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	2923 County Ln	8.98	2/28/2019	\$385,000	1976	2,905	\$132.53	3/3	2-Car	Ranch	Brick/Pond	340
Not	1928 Shaw Mill	17.00	7/3/2019	\$290,000	1977	3,001	\$96.63	4/4	2-Car	Ranch	Brick/Pond/Rental	
Not	2109 John McM.	7.78	4/25/2018	\$320,000	1978	2,474	\$129.35	3/2	Det Gar	Ranch	Vinyl/Pool,Stable	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	2923 County Ln								\$385,000		3%
Not	1928 Shaw Mill	-\$3,055	\$100,000	-\$1,450	-\$7,422	-\$10,000			\$368,074	4%	
Not	2109 John McM.	\$8,333		-\$3,200	\$39,023	\$10,000		\$5,000	\$379,156	2%	

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	2935 County Ln	1.19	6/18/2019	\$266,000	2019	2,401	\$110.79	4/3	Gar	2-Story		330
Not	3005 Hemingway	1.17	5/16/2019	\$269,000	2018	2,601	\$103.42	4/3	Gar	2-Story		
Not	7031 Glynn Mill	0.60	5/8/2018	\$255,000	2017	2,423	\$105.24	4/3	Gar	2-Story		
Not	5213 Bree Brdg	0.92	5/7/2019	\$260,000	2018	2,400	\$108.33	4/3	3-Gar	2-Story		

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	2935 County Ln								\$266,000		3%
Not	3005 Hemingway	\$748		\$1,345	-\$16,547				\$254,546	4%	
Not	7031 Glynn Mill	\$8,724		\$2,550	-\$1,852				\$264,422	1%	
Not	5213 Bree Brdg	\$920		\$1,300	\$76			-\$10,000	\$252,296	5%	

Both of these matched pairs adjust to an average of +3% on impact for the adjoining solar farm, meaning there is a slight positive impact due to proximity to the solar farm. This is within the standard +/- of typical real estate transactions, which strongly suggests no impact on property value. I noted specifically that for 2923 County Line Road, the best comparable is 2109 John McMillan as it does not have the additional rental unit on it. I made no adjustment to the other sale for the value of that rental unit, which would have pushed the impact on that comparable downward – meaning there would have been a more significant positive impact.



36. Matched Pair – Demille Solar, Demille Road, Lapeer, MI



This solar farm is located on 160 acres of a parent tract assemblage of 311.40 acres with a 28.4 MW output. This was built in 2017.

I have identified several home sales adjoining this solar farm at the southeast corner where the red line shows adjoining Parcels 5 through 17 on the map above.

The first is Parcel 8 in the map above, 1120 Don Wayne Drive, that sold in August 2019. I have compared this to multiple home sales as shown below. I consider 1231 Turrill to be the best comparable of this set as it required the least adjustment and was the most similar in size, age, and date of sale.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Dist.
Adjoins	1120 Don Wayne	0.47	8/28/2019	\$194,000	1976	1,700	\$114.12	3/3.5	2-Car	Ranch	Brick/FinBsmt	310
Not	1127 Don Wayne	0.51	9/23/2019	\$176,900	1974	1,452	\$121.83	3/2	2-Car	Ranch	Brick/Ufin Bsmt	
Not	1231 Turrill	1.21	4/25/2019	\$182,000	1971	1,560	\$116.67	3/2	2-Car	Ranch	Brick/Wrkshp	
Not	1000 Baldwin	3.11	8/1/2017	\$205,000	1993	1,821	\$112.58	3/2.5	2-Car	Ranch	Vinyl	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1120 Don Wayne								\$194,000		-1%
Not	1127 Don Wayne	-\$258		\$1,769	\$24,171	\$10,000			\$212,582	-10%	
Not	1231 Turrill	\$1,278	-\$10,000	\$4,550	\$13,067	\$10,000			\$200,895	-4%	
Not	1000 Baldwin	\$8,718	-\$20,000	-\$17,425	-\$10,897	\$10,000			\$175,396	10%	

Next I considered Parcel 9, 1126 Don Wayne Drive, which I have compared to two similar home sales nearby that are not adjoining a solar farm as shown below. This home sold in May 2018 after the solar farm was built.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Dist.
Adjoins	1126 Don Wayne	0.47	5/16/2018	\$160,000	1971	1,900	\$84.21	3/2.5	2-Car	Ranch	Brick,FinBsmt	310
Not	70 Sterling Dr	0.32	8/2/2018	\$137,500	1960	1,800	\$76.39	3/1.5	1-Car	Ranch	Brick	
Not	3565 Garden Dr	0.34	5/15/2019	\$165,000	1960	2,102	\$78.50	3/1.5	2-Car	Ranch	Brick	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1126 Don Wayne								\$160,000		-3%
Not	70 Sterling Dr	-\$603		\$7,563	\$6,111	\$10,000	\$5,000		\$165,571	-3%	
Not	3565 Garden Dr	-\$3,374		\$9,075	-\$12,685	\$5,000			\$163,016	-2%	

Next I looked at Parcel 11, 1138 Don Wayne Drive, that sold in August 2019. I have compared this to three similar sales as shown below. I attributed no value to the pool at 1138 Don Wayne Drive.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Dist.
Adjoins	1138 Don Wayne	0.47	8/28/2019	\$191,000	1975	2,128	\$89.76	4/1.5	2-Car	2-Story	Brick	380
Not	1331 W Genessee	0.45	10/25/2019	\$160,707	1940	1,955	\$82.20	4/1.5	Drive	1.5 Story	Vinyl/UnBsmt	
Not	1128 Gwen Dr	0.47	8/24/2018	\$187,500	1973	2,040	\$91.91	3/2.5	2-Car	2 Story	Brick/UnBsmt	
Not	1227 Oakridge	1.05	6/11/2017	\$235,000	1980	2,500	\$94.00	4/2.5	2-Car	2 Story	Brk/PFinBsmt	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1138 Don Wayne								\$191,000		-1%
Not	1331 W Genessee	-\$524		\$16,874	\$11,377		\$10,000		\$198,434	-4%	
Not	1128 Gwen Dr	\$3,887		\$1,875	\$6,471	-\$10,000			\$189,733	1%	
Not	1227 Oakridge	\$10,667	-\$10,000	-\$5,875	-\$27,974	-\$10,000			\$191,818	0%	

Parcel 13, 1168 Alice Drive, sold in October 2019. I spoke with Tanya Biernat the buyer's agent who handled that sale and she indicated that the property was placed on the market below market for a fast sale by the sellers. The buyers expressed no concern regarding the adjacent solar farm and it had no impact on marketing or selling the property, though it did sell for a low price. I also spoke with Chantel Fink's office, the selling agent. They confirmed that the solar farm was not an issue in the sales price or marketing of the property. Given that this sale was noted as below market for a fast sale, I have not attempted to set it up as a matched pair.

Parcel 14, 1174 Alice Drive, sold in January 2019. I have compared that sale to three similar properties as shown below. I included 1135 Gwen Drive as a nearby comparable, but it is not a good comparable. According to the broker, Paul Coulter, that home had many recent and significant upgrades that made it superior to similar housing in the neighborhood. It is notably the highest sales price in the neighborhood. I have shown that one but I made no adjustment for those upgrades, but I won't rely on that sale for the matched pairs. I consider the 1127 Don Wayne Drive comparable to be a more reasonable comparison. I spoke with Chris Ferguson the broker for that sale who confirmed that it was arm's length and that while across Don Wayne Drive from the homes that adjoin the solar farm, this home had no view of the solar farm and was not an issue in marketing this home.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Dist.
Adjoins	1174 Alice Dr	0.54	1/14/2019	\$165,000	1973	1,400	\$117.86	3/1.5	2-Car	Ranch	Brick/Fin Bsmt	280
Not	1127 Don Wayne	0.51	9/23/2019	\$176,900	1974	1,452	\$121.83	3/2	2-Car	Ranch	Brick/Ufin Bsmt	
Not	1135 Gwen Dr	0.43	7/26/2019	\$205,000	1967	1,671	\$122.68	3/2	2-Car	Ranch	Brick/Ufin Bsmt	
Not	1160 Beth Dr	0.46	6/20/2019	\$147,500	1970	1,482	\$99.53	4/1.5	2-Car	Ranch	Brick/Fin Bsmt	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1174 Alice Dr								\$165,000		2%
Not	1127 Don Wayne	-\$2,504		-\$885	-\$5,068	-\$5,000			\$163,443	1%	
Not	1135 Gwen Dr	-\$2,223		\$6,150	-\$26,597	-\$5,000			\$177,330	-7%	
Not	1160 Beth Dr	-\$1,301		\$2,213	-\$6,529				\$141,883	14%	

The four matched pairs identified show a range of -3% to +2% based on the average difference for each set of matched pairs. This is a very similar range I have found in most sales adjoining solar farms and strongly supports the assertion that the solar farm is not having a negative impact on adjoining property values.

Furthermore, two brokers active in the sale of a home adjoining the solar farm both confirmed that Parcel 13 was not impacted by the presence of the solar farm on the adjacent tract.

37. Matched Pair – Turrill Solar, Turrill Road, Lapeer, MI



This solar farm is located on approximately 230 acres with a 19.6 MW output. This was built in 2017.

I have identified several home sales adjoining this solar farm on the west side of this solar farm on Cliff Drive.

The first is 1060 Cliff Drive that sold in September 2018. I compared this to multiple nearby home sales as shown below.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	1060 Cliff Dr	1.03	9/14/2018	\$200,500	1970	2,114	\$94.84	4/2.5	2-Car	2 Story	Brick	290
Not	1331 W Genessee	0.45	10/25/2019	\$160,707	1940	1,955	\$82.20	4/1.5	Drive	1.5 Story	Vinyl/Unfin Bsmt	
Not	1128 Gwen Dr	0.47	8/24/2018	\$187,500	1973	2,040	\$91.91	3/2.5	2-Car	2 Story	Brick/Unfin Bsmt	
Not	1227 Oakridge	1.05	6/11/2017	\$235,000	1980	2,500	\$94.00	4/2.5	2-Car	2 Story	Brk/Prt Fin Bsmt	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1060 Cliff Dr								\$200,500		-2%
Not	1331 W Genessee	-\$3,666	\$10,000	\$14,464	\$10,456	\$10,000	\$10,000		\$211,961	-6%	
Not	1128 Gwen Dr	\$221	\$10,000	-\$2,813	\$5,441				\$200,350	0%	
Not	1227 Oakridge	\$6,073		-\$11,750	-\$29,027				\$200,296	0%	

Next I considered 1040 Cliff Drive as shown below. Comparing to the 1127 Don Wayne Drive, I show no impact. I included 1135 Gwen Drive as a nearby comparable, but it is not a good comparable. According to the broker, Paul Coulter, that home had many recent and significant upgrades that made it superior to similar housing in the neighborhood. It is notably the highest sales price in the neighborhood. I have shown that one but I made no adjustment for those upgrades, but I won't rely on that sale for the matched pairs. This leaves 1127 Don Wayne Drive which shows no impact and 1160 Beth Drive, which had the fewest adjustments shows a 12% premium or enhancement for adjoining the solar farm. I consider the Don Wayne Drive match up to be the better of these two comparables even with a higher number of adjustments.

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	1040 Cliff Dr	1.03	6/29/2017	\$145,600	1960	1,348	\$108.01	3/1.5	3-Car	Ranch	Brick/Wrkshp	255
Not	1127 Don Wayne	0.51	9/23/2019	\$176,900	1974	1,452	\$121.83	3/2	2-Car	Ranch	Brick/Ufin Bsmt	
Not	1135 Gwen Dr	0.43	7/26/2019	\$205,000	1967	1,671	\$122.68	3/2	2-Car	Ranch	Brick/Ufin Bsmt	
Not	1160 Beth Dr	0.46	6/20/2019	\$147,500	1970	1,482	\$99.53	4/1.5	2-Car	Ranch	Brick/Fin Bsmt	

Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff
Adjoins	1040 Cliff Dr								\$145,600		1%
Not	1127 Don Wayne	-\$8,110		-\$12,383	-\$10,136	-\$5,000	\$5,000		\$146,271	0%	
Not	1135 Gwen Dr	-\$8,718		-\$7,175	-\$31,701	-\$5,000	\$5,000		\$157,406	-8%	
Not	1160 Beth Dr	-\$5,975		-\$7,375	-\$10,669		\$5,000		\$128,481	12%	

The two matched pairs identified show a range of -2% to +1% based on the average difference for each set of matched pairs. This is a very similar range I have found in most sales adjoining solar farms and strongly supports the assertion that the solar farm is not having a negative impact on adjoining property values.

Conclusion

The solar farm matched pairs shown above have similar characteristics to each other in terms of population, with most of the projects being in areas with a 1-mile radius population under 1,000, but with several outliers showing solar farms in farm more urban areas.

The median income for the population within 1 mile of a solar farm is \$63,678 with a median housing unit value of \$256,306. Most of the comparables are under \$350,000 in the home price, with \$770,000 being the high end of the set of matched pairs. The adjoining uses show that residential and agricultural uses are the predominant adjoining uses.

These figures are in line with the larger set of solar farms that I have looked at with the predominant adjoining uses being residential and agricultural and similar to the solar farm breakdown shown for Kentucky and the proposed subject property.

Matched Pair Summary					Adj. Uses By Acreage					1 mile Radius (2010-2019 Data)			
Name	City	State	Acres	MW	Topo Shift	Res	Ag/Res	Ag	Com/Ind	Population	Med. Income	Avg. Housing Unit	
1	AM Best	Goldsboro	NC	38	5.00	2	38%	23%	0%	39%	1,523	\$37,358	\$148,375
2	White Cross	Chapel Hill	NC	45	5.00	50	5%	51%	44%	0%	213	\$67,471	\$319,929
3	Wagstaff	Roxboro	NC	30	5.00	46	7%	89%	4%	0%	336	\$41,368	\$210,723
4	Mulberry	Selmer	TN	160	5.00	60	13%	10%	73%	3%	467	\$40,936	\$171,746
5	Nixon's	W. Friendship	MD	97	2.00	40	79%	4%	17%	0%	939	\$166,958	\$770,433
6	Leonard	Hughesville	MD	47	5.00	20	18%	0%	75%	6%	525	\$106,550	\$350,000
7	Talbot	Easton	MD	50	0.55	0	81%	0%	19%	0%	536	\$47,136	\$250,595
8	Alamo II	Converse	TX	98	4.40	30	95%	0%	5%	0%	9,257	\$62,363	\$138,617
9	Gastonia SC	Gastonia	NC	35	5.00	48	33%	23%	0%	44%	4,689	\$35,057	\$126,562
10	Summit	Moyock	NC	2,034	80.00	4	4%	94%	0%	2%	382	\$79,114	\$281,731
11	White Cross II	Chapel Hill	NC	34	2.80	35	25%	75%	0%	0%	213	\$67,471	\$319,929
12	Tracy	Bailey	NC	50	5.00	10	29%	71%	0%	0%	312	\$43,940	\$99,219
13	Manatee	Parrish	FL	1,180	75.00	20	2%	1%	97%	0%	48	\$75,000	\$291,667
14	McBride	Midland	NC	627	75.00	140	12%	78%	10%	0%	398	\$63,678	\$256,306
15	Yamhill II	Amity	OR	186	1.20	20	2%	0%	97%	1%	97	\$58,248	\$342,391
16	Marion	Aurora	OR	32	0.30	0	2%	37%	61%	0%	267	\$75,355	\$370,833
17	Clackamas II	Aurora	OR	156	0.22	0	7%	25%	68%	0%	3,062	\$70,911	\$464,501
18	Grand Ridge	Streator	IL	160	20.00	1	8%	5%	87%	0%	96	\$70,158	\$187,037
19	Portage	Portage	IN	56	2.00	0	19%	0%	81%	0%	6,642	\$65,695	\$186,463
20	Dominion	Indianapolis	IN	134	8.60	20	3%	0%	97%	0%	3,774	\$61,115	\$167,515
21	Beetle-Shelby	Shelby	NC	24	4.00	52	22%	0%	77%	1%	218	\$53,541	\$192,692
22	Courthouse	Bessemer	NC	52	5.00	150	48%	52%	0%	0%	551	\$45,968	\$139,404
23	Mariposa	Stanley	NC	36	5.00	96	48%	52%	0%	0%	1,716	\$36,439	\$137,884
24	Clarke Cnty	White Post	VA	234	20.00	70	14%	46%	39%	1%	578	\$81,022	\$374,453
25	Turner	Henrico	VA	250	20.00	49	63%	0%	37%	0%	911	\$76,283	\$292,807
26	Flemington	Flemington	NJ	120	9.36	N/A	13%	28%	50%	8%	3,477	\$105,714	\$444,696
27	Frenchtown	Frenchtown	NJ	139	7.90	N/A	37%	29%	35%	0%	457	\$111,562	\$515,399
28	McGraw	East Windsor	NJ	95	14.00	N/A	27%	0%	44%	29%	7,684	\$78,417	\$362,428
29	Tinton Falls	Tinton Falls	NJ	100	16.00	N/A	98%	0%	0%	2%	4,667	\$92,346	\$343,492
30	Simon	Social Circle	GA	237	30.00	71	1%	36%	63%	0%	203	\$76,155	\$269,922
31	Candace	Princeton	NC	54	5.00	22	76%	0%	24%	0%	448	\$51,002	\$107,171
32	Crittenden	Crittenden	KY	34	2.70	40	22%	27%	51%	0%	1,419	\$60,198	\$178,643
33	Walker	Barhamsville	VA	485	20.00	N/A	12%	20%	68%	0%	203	\$80,773	\$320,076
34	Innov 46	Hope Mills	NC	532	78.50	0	17%	0%	83%	0%	2,247	\$58,688	\$183,435
35	Innov 42	Fayetteville	NC	414	71.00	0	41%	0%	59%	0%	568	\$60,037	\$276,347
36	Demille	Lapeer	MI	160	28.40	10	10%	0%	68%	22%	2,010	\$47,208	\$187,214
37	Turrill	Lapeer	MI	230	19.60	10	75%	0%	59%	25%	2,390	\$46,839	\$110,361
Average			228	17.93	35	30%	24%	43%	5%	1,717	\$67,516	\$267,324	
Median			100	5.00	21	19%	10%	44%	0%	551	\$63,678	\$256,306	
High			2,034	80.00	150	98%	94%	97%	44%	9,257	\$166,958	\$770,433	
Low			24	0.22	0	1%	0%	0%	0%	48	\$35,057	\$99,219	

Subject: Turkey 297 120 8% 51% 36% 5% 484 \$33,511 \$156,303

I have pulled 81 matched pairs from the above referenced solar farms to provide the following summary of home sale matched pairs and land sales next to solar farms. The summary shows that the range of differences is from -10% to +9% with an average of +1% and median of +1%. This means that the average and median impact is for a slight positive impact due to adjacency to a solar farm. However, this 1% rate is within the typical variability I would expect from real estate. I therefore conclude that this data shows no negative or positive impact due to adjacency to a solar farm.

Similarly, the 10 land sales shows a median impact of 0% due to adjacency to a solar farm. The range of these adjustments range from -12% to +17%. Land prices tend to vary more widely than residential homes, which is part of that greater range. I consider this data to support no negative or positive impact due to adjacency to a solar farm.

Residential Dwelling Matched Pairs Adjoining Solar Farms

Pair	Solar Farm	City	State	Area	MW	Approx		Sale Date	Sale Price	Adj. Sale Price	% Diff
						Distance	Tax ID/Address				
1	AM Best	Goldsboro	NC	Suburban	5	280	3600195570	Sep-13	\$250,000		
							3600198928	Mar-14	\$250,000	\$250,000	0%
2	AM Best	Goldsboro	NC	Suburban	5	280	3600195361	Sep-13	\$260,000		
							3600194813	Apr-14	\$258,000	\$258,000	1%
3	AM Best	Goldsboro	NC	Suburban	5	280	3600199891	Jul-14	\$250,000		
							3600198928	Mar-14	\$250,000	\$250,000	0%
4	AM Best	Goldsboro	NC	Suburban	5	280	3600198632	Aug-14	\$253,000		
							3600193710	Oct-13	\$248,000	\$248,000	2%
5	AM Best	Goldsboro	NC	Suburban	5	280	3600196656	Dec-13	\$255,000		
							3601105180	Dec-13	\$253,000	\$253,000	1%
6	AM Best	Goldsboro	NC	Suburban	5	280	3600182511	Feb-13	\$247,000		
							3600183905	Dec-12	\$240,000	\$245,000	1%
7	AM Best	Goldsboro	NC	Suburban	5	280	3600182784	Apr-13	\$245,000		
							3600193710	Oct-13	\$248,000	\$248,000	-1%
8	AM Best	Goldsboro	NC	Suburban	5	280	3600195361	Nov-15	\$267,500		
							3600195361	Sep-13	\$260,000	\$267,800	0%
9	Mulberry	Selmer	TN	Rural	5	400	0900A011	Jul-14	\$130,000		
							099CA043	Feb-15	\$148,900	\$136,988	-5%
10	Mulberry	Selmer	TN	Rural	5	400	099CA002	Jul-15	\$130,000		
							0990NA040	Mar-15	\$120,000	\$121,200	7%
11	Mulberry	Selmer	TN	Rural	5	480	491 Dusty	Oct-16	\$176,000		
							35 April	Aug-16	\$185,000	\$178,283	-1%
12	Mulberry	Selmer	TN	Rural	5	650	297 Country	Sep-16	\$150,000		
							53 Glen	Mar-17	\$126,000	\$144,460	4%
13	Mulberry	Selmer	TN	Rural	5	685	57 Cooper	Feb-19	\$163,000		
							191 Amelia	Aug-18	\$132,000	\$155,947	4%
14	Pine Valley	West End	NC	Rural	5	175	16893	Aug-16	\$66,000		
							16897	Aug-16	\$59,000	\$65,490	1%
15	Nixon's	W. Friendship	MD	Rural	2	660	12909 Vistaview	Sep-14	\$775,000	\$771,640	
							2712 Friendship Farm	Jun-14	\$690,000	\$755,000	2%
16	Leonard Rd	Hughesville	MD	Rural	5.5	230	14595 Box Elder	Feb-16	\$291,000		
							15313 Bassford Rd	Jul-16	\$329,800	\$292,760	-1%
17	Talbot Cnty	Easton	MD	Rural	0.55	1000	10193 Hiners	Oct-12	\$136,092		
							10711 Hiners	Dec-12	\$135,000	\$135,250	1%
18	Alamo II	San Antonio	TX	Suburban	4.4	360	7703 Redstone Mnr	Mar-16	\$166,000		
							7703 Redstone Mnr	Oct-12	\$149,980	\$165,728	0%
19	Alamo II	San Antonio	TX	Suburban	4.4	170	7807 Redstone Mnr	Aug-14	\$147,000		
							7807 Redstone Mnr	May-12	\$136,266	\$145,464	1%
20	Alamo II	San Antonio	TX	Suburban	4.4	150	7734 Sundew Mist	Nov-14	\$134,000		
							7734 Sundew Mist	May-12	\$117,140	\$125,928	6%
21	Neal Hawkins	Gastonia	NC	Suburban	5	275	139179	Mar-17	\$270,000		
							139179	Mar-17	\$270,000	\$270,000	0%
22	Summit	Moyock	NC	Suburban	80	1,060	129 Pinto	Apr-16	\$170,000		
							102 Timber	Apr-16	\$175,500	\$175,101	-3%
23	Summit	Moyock	NC	Suburban	80	2,020	105 Pinto	Dec-16	\$206,000		
							127 Ranchland	Jun-15	\$219,900	\$198,120	4%
24	White Cross II	Chapel Hill	NC	Rural	2.8	1,479	2018 Elkins	Feb-16	\$340,000		
							4200B Old Greensbor	Dec-15	\$380,000	\$329,438	3%
25	Tracy	Bailey	NC	Rural	5	780	9162 Winters	Jan-17	\$255,000		
							7352 Red Fox	Jun-16	\$176,000	\$252,399	1%
26	Manatee	Parrish	FL	Rural	75	1180	13670 Highland	Aug-18	\$255,000		
							13851 Highland	Sep-18	\$240,000	\$255,825	0%
27	McBride Place	Midland	NC	Rural	75	275	4380 Joyner	Nov-17	\$325,000		
							3870 Elkwood	Aug-16	\$250,000	\$317,523	2%
28	Yamhill II	Amity	OR	Rural	1.2	700	12001 SW Bellerus	Jul-15	\$326,456		
							9955 Bethel	Feb-16	\$289,900	\$295,593	9%
29	Clackamas II	Aurora	OR	Suburban	0.22	125	7620 SW Fairway	Jul-13	\$365,000		
							7480 SW Fairway	Jun-13	\$365,000	\$365,000	0%
30	Clackamas II	Aurora	OR	Suburban	0.22	125	7700 SW Fairway	Jun-14	\$377,100		
							7500 SW Fairway	Dec-11	\$365,000	\$370,175	2%
31	Clackamas II	Aurora	OR	Suburban	0.22	125	7380 SW Fairway	Jul-14	\$415,000		
							7480 SW Fairway	Jun-13	\$365,000	\$384,345	7%

Pair	Solar Farm	City	State	Area	MW	Approx		Sale Date	Sale Price	Adj. Sale Price	% Diff	Notes
						Distance	Tax ID/Address					
32	Grand Ridge	Streator	IL	Rural	20	480	1497 E 21st	Oct-16	\$186,000			
							712 Columbus	Jun-16	\$166,000	\$184,000	1%	
33	Portage	Portage	IN	Rural	2	1320	836 N 450 W	Sep-13	\$149,800			
							336 E 1050 N	Jan-13	\$155,000	\$144,282	4%	
34	Dominion	Indianapolis	IN	Rural	8.6	400	2013249 (Tax ID)	Dec-15	\$140,000			
							5723 Minden	Nov-16	\$139,900	\$132,700	5%	Adjusted f
35	Dominion	Indianapolis	IN	Rural	8.6	400	2013251 (Tax ID)	Sep-17	\$160,000			
							5910 Mosaic	Aug-16	\$146,000	\$152,190	5%	
36	Dominion	Indianapolis	IN	Rural	8.6	400	2013252 (Tax ID)	May-17	\$147,000			
							5836 Sable	Jun-16	\$141,000	\$136,165	7%	Adjusted f
37	Dominion	Indianapolis	IN	Rural	8.6	400	2013258 (Tax ID)	Dec-15	\$131,750			
							5904 Minden	May-16	\$130,000	\$134,068	-2%	Adjusted f
38	Dominion	Indianapolis	IN	Rural	8.6	400	2013260 (Tax ID)	Mar-15	\$127,000			
							5904 Minden	May-16	\$130,000	\$128,957	-2%	Adjusted f
39	Dominion	Indianapolis	IN	Rural	8.6	400	2013261 (Tax ID)	Feb-14	\$120,000			
							5904 Minden	May-16	\$130,000	\$121,930	-2%	Adjusted f
40	Beetle-Shelby	Mooresboro	NC	Rural	4	945	1715 Timber	Oct-18	\$416,000			
							1021 Posting	Feb-19	\$414,000	\$398,276	4%	Adjusted f
41	Courthouse	Bessemer	NC	Rural	5	375	2134 Tryon Court.	Mar-17	\$111,000			
							5550 Lennox	Oct-18	\$115,000	\$106,355	4%	Adjusted f
42	Mariposa	Stanley	NC	Suburban	5	1155	215 Mariposa	Dec-17	\$249,000			
							110 Airport	May-16	\$166,000	\$239,026	4%	Adjusted f
43	Mariposa	Stanley	NC	Suburban	5	570	242 Mariposa	Sep-15	\$180,000			
							110 Airport	Apr-16	\$166,000	\$175,043	3%	Adjusted f
44	Clarke Cnty	White Post	VA	Rural	20	1230	833 Nations Spr	Jan-17	\$295,000			
							541 Old Kitchen	Sep-18	\$370,000	\$279,313	5%	Adjusted f
45	Turner	Henrico	VA	Rural	20	1540	8573 Strath	Feb-19	\$204,900			
							9300 Varina	Dec-18	\$186,000	\$207,238	-1%	Adjusted f
46	Flemington	Flemington	NJ	Suburban	9.36	295	10 Coventry	Mar-18	\$370,000			
							1 Sheffield	Dec-17	\$399,900	\$389,809	-5%	Adjusted f
47	Flemington	Flemington	NJ	Suburban	9.36	375	54 Hart	Jul-16	\$420,000			
							43 Aberdeen	Nov-16	\$417,000	\$423,190	-1%	Adjusted f
48	Flemington	Flemington	NJ	Suburban	9.36	425	6 Portsmith	Jun-15	\$410,000			
							43 Aberdeen	Nov-16	\$417,000	\$423,190	-3%	Adjusted f
49	Flemington	Flemington	NJ	Suburban	9.36	345	12 Stratford	Nov-17	\$414,900			
							28 Bristol	Dec-18	\$398,000	\$420,002	-1%	Adjusted f
50	Frenchtown	Frenchtown	NJ	Rural	7.9	250	5 Muddy Run	Jun-17	\$385,000			
							132 Kingswood	Oct-16	\$380,000	\$355,823	8%	Adjusted f
51	McGraw	East Windsor	NJ	Suburban	14	175	153 Wyndmoor	Apr-17	\$215,000			
							20 Spyglass	Dec-17	\$240,000	\$235,305	-9%	Adjusted f
52	McGraw	East Windsor	NJ	Suburban	14	175	149 Wyndmoor	May-17	\$206,000			
							81 Wyndmoor	Jan-18	\$204,000	\$198,018	4%	Adjusted f
53	McGraw	East Windsor	NJ	Suburban	14	400	26 Wilmor	Mar-19	\$286,000			
							25 Pinehurst	May-19	\$315,000	\$267,052	7%	Adjusted f
54	Tinton Falls	Tinton Falls	NJ	Suburban	16	185	111 Kyle	Aug-18	\$402,000			
							80 Kyle	Sep-17	\$410,000	\$397,821	1%	Adjusted f
55	Tinton Falls	Tinton Falls	NJ	Suburban	16	155	47 Kyle	Aug-18	\$260,000			
							4 Michael	Nov-18	\$260,000	\$259,788	0%	Adjusted f
56	Tinton Falls	Tinton Falls	NJ	Suburban	16	150	7 Kyle	Jun-17	\$262,195			
							36 Kyle	Jan-19	\$260,000	\$257,824	2%	Adjusted f
57	Tinton Falls	Tinton Falls	NJ	Suburban	16	155	1 Samantha	Sep-17	\$258,205			
							36 Kyle	Jan-19	\$260,000	\$259,533	-1%	Adjusted f
58	Tinton Falls	Tinton Falls	NJ	Suburban	16	155	1 Samantha	Sep-17	\$258,205			
							36 Kyle	Jan-19	\$260,000	\$259,533	-1%	Adjusted f
59	Candace	Princeton	NC	Suburban	5	488	499 Herring	Sep-17	\$215,000			
							1795 Bay Valley	Dec-17	\$194,000	\$214,902	0%	Adjusted f
60	Crittenden	Crittenden	KY	Suburban	2.7	373	250 Claiborne	Jan-19	\$120,000			
							315 N Fork	May-19	\$107,000	\$120,889	-1%	Adjusted f

Pair	Solar Farm	City	State	Area	MW	Approx		Sale Date	Sale Price	Adj. Sale Price	% Diff
						Distance	Tax ID/Address				
61	Crittenden	Crittenden	KY	Suburban	2.7	488	300 Claiborne 1795 Bay Valley	Sep-18 Dec-17	\$213,000 \$231,200		
62	Crittenden	Crittenden	KY	Suburban	2.7	720	350 Claiborne 2160 Sherman	Jul-18 Jun-19	\$245,000 \$265,000	\$228,180 \$248,225	-7% -1%
63	Crittenden	Crittenden	KY	Suburban	2.7	930	370 Claiborne 125 Lexington	Aug-19 Apr-18	\$273,000 \$240,000		
64	Walker	Barhamsville	VA	Rural	20	250	5241 Barham 9252 Ordinary	Oct-18 Jun-19	\$264,000 \$277,000		
65	AM Best	Goldsboro	NC	Suburban	5	385	103 Granville Pl 2219 Granville	Jul-18 Jan-18	\$265,000 \$260,000		
66	AM Best	Goldsboro	NC	Suburban	5	315	104 Erin 2219 Granville	Jun-17 Jan-18	\$280,000 \$265,000	\$265,682 \$274,390	0% 2%
67	AM Best	Goldsboro	NC	Suburban	5	400	2312 Granville 2219 Granville	May-18 Jan-18	\$284,900 \$265,000		
68	AM Best	Goldsboro	NC	Suburban	5	400	2310 Granville 634 Friendly	May-19 Jul-19	\$280,000 \$267,000		
69	Summit	Moyock	NC	Suburban	80	570	318 Green View 336 Green View	Sep-19 Jan-19	\$357,000 \$365,000		
70	Summit	Moyock	NC	Suburban	80	440	164 Ranchland 105 Longhorn	Apr-19 Oct-17	\$169,000 \$184,500		
71	Summit	Moyock	NC	Suburban	80	635	358 Oxford 176 Providence	Sep-19 Sep-19	\$478,000 \$425,000		
72	Summit	Moyock	NC	Suburban	80	970	343 Oxford 218 Oxford	Mar-17 Apr-17	\$490,000 \$525,000		
73	Innov 46	Hope Mills	NC	Suburban	78.5	435	6849 Roslin Farm 109 Bledsoe	Feb-19 Jan-19	\$155,000 \$150,000		
74	Innov 42	Fayetteville	NC	Suburban	71	340	2923 County Line 2109 John McMillan	Feb-19 Apr-18	\$385,000 \$320,000		
75	Innov 42	Fayetteville	NC	Suburban	71	330	2935 County Line 7031 Glynn Mill	Jun-19 May-18	\$266,000 \$255,000		
76	Demille	Lapeer	MI	Suburban	28	310	1120 Don Wayne 1231 Turrill	Aug-19 Apr-19	\$194,000 \$182,000		
77	Demille	Lapeer	MI	Suburban	28	310	1126 Don Wayne 3565 Garden	May-18 May-19	\$160,000 \$165,000		
78	Demille	Lapeer	MI	Suburban	28	380	1138 Don Wayne 1128 Gwen	Aug-19 Aug-18	\$191,000 \$187,500		
79	Demille	Lapeer	MI	Suburban	28	280	1174 Alice 1127 Don Wayne	Jan-19 Sep-19	\$165,000 \$176,900		
80	Turrill	Lapeer	MI	Suburban	20	290	1060 Cliff 1128 Gwen	Sep-18 Aug-18	\$200,500 \$187,500		
81	Turrill	Lapeer	MI	Suburban	20	255	1040 Cliff 1127 Don Wayne	Jun-17 Sep-19	\$145,600 \$176,900		

	MW	Avg. Distance		% Dif
Average	18.08	485	Average	1%
Median	5.50	380	Median	1%
High	80.00	2,020	High	9%
Low	0.22	125	Low	-10%

Land Sale Matched Pairs Adjoining Solar Farms

Pair	Solar Farm	City	State	Area	MW	Tax ID/Address	Sale Date	Sale Price	Acres	\$/AC	Adj. \$/AC	% Diff
1	White Cross	Chapel Hill	NC	Rural	5	9748336770	Jul-13	\$265,000	47.20	\$5,614		
						9747184527	Nov-10	\$361,000	59.09	\$6,109	\$5,278	6%
2	Wagstaff	Roxboro	NC	Rural	5	91817117960	Aug-13	\$164,000	18.82	\$8,714		
						91800759812	Dec-13	\$130,000	14.88	\$8,737	\$8,737	0%
3	Tracy	Bailey	NC	Rural	5	316003	Jul-16	\$70,000	13.22	\$5,295		
						6056	Oct-16	\$164,000	41.00	\$4,000	\$4,400	17%
4	Marion	Aurora	OR	Rural	0.3	18916 Butteville	Aug-14	\$259,000	15.75	\$16,444		
						Waconda	Sep-15	\$215,000	11.86	\$18,128	\$16,950	-3%
5	Portage	Portage	IN	Sub	2	64-06-19-200-003	Feb-14	\$149,600	18.70	\$8,000		
						64-15-08-200-010	Jan-17	\$115,000	15.02	\$7,656	\$7,198	10%
6	Courthouse	Bessemer	NC	Rural	5	5021 Buckland	Mar-18	\$58,500	9.66	\$6,056		
						Kiser	Nov-17	\$69,000	17.65	\$3,909	\$5,190	14%
7	Mariposa	Stanley	NC	Sub	5	174339	Jun-18	\$160,000	21.15	\$7,565		
						227852	May-18	\$97,000	10.57	\$9,177	\$7,565	0%
8	Mariposa	Stanley	NC	Sub	5	227039	Dec-17	\$66,500	6.86	\$9,694		
						177322	May-17	\$66,500	5.23	\$12,715	\$9,694	0%
9	Simon	Social Circle	GA	Rural	30	4514 Hawkins	Mar-16	\$180,000	36.86	\$4,883		
						Pannell	Nov-16	\$322,851	66.94	\$4,823	\$4,974	-2%
10	Candace	Princeton	NC	Sub	5	499 Herring	May-17	\$30,000	2.03	\$14,778		
						488 Herring	Dec-16	\$35,000	2.17	\$16,129	\$16,615	-12%
				Average	6.73					Average	3%	
				Median	5.00					Median	0%	
				High	30.00					High	17%	
				Low	0.30					Low	-12%	

Larger Solar Farm Data

I have summarized the solar farm data for projects over 20 MW as shown below. These are the same solar farms noted above but focused on larger projects.

Matched Pair Summary							Adj. Uses By Acreage				1 mile Radius (2010-2018 Data)		
	Name	City	State	Acres	MW	Topo Shift	Res	Ag/Res	Ag	Com/Ind	Population	Med. Income	Avg. Housing Unit
10	Summit	Moyock	NC	2,034	80.00	4	4%	94%	0%	2%	382	\$79,114	\$281,731
13	Manatee	Parrish	FL	1,180	75.00	20	2%	1%	97%	0%	48	\$75,000	\$291,667
14	McBride	Midland	NC	627	75.00	140	12%	78%	10%	0%	398	\$63,678	\$256,306
18	Grand Ridge	Streator	IL	160	20.00	1	8%	5%	87%	0%	96	\$70,158	\$187,037
24	Clarke Cnty	White Post	VA	234	20.00	70	14%	46%	39%	1%	578	\$81,022	\$374,453
25	Turner	Henrico	VA	250	20.00	49	63%	0%	37%	0%	911	\$76,283	\$292,807
26	Simon	Social Circle	GA	237	30.00	71	1%	36%	63%	0%	203	\$76,155	\$269,922
33	Walker	Barhamsville	VA	485	20.00	N/A	12%	20%	68%	0%	203	\$80,773	\$320,076
34	Innov 46	Hope Mills	NC	532	78.50	0	17%	0%	83%	0%	2,247	\$58,688	\$183,435
35	Innov 42	Fayetteville	NC	414	71.00	0	41%	0%	59%	0%	568	\$60,037	\$276,347
36	Demille	Lapeer	MI	160	28.40	10	10%	0%	68%	22%	2,010	\$47,208	\$187,214
37	Turrill	Lapeer	MI	230	19.60	10	75%	0%	59%	25%	2,390	\$46,839	\$110,361
Average				545	45	34	22%	23%	56%	4%	836	\$67,913	\$252,613
Median				332	29	10	12%	3%	61%	0%	483	\$72,579	\$273,135
High				2,034	80	140	75%	94%	97%	25%	2,390	\$81,022	\$374,453
Low				160	20	0	1%	0%	0%	0%	48	\$46,839	\$110,361

The breakdown of adjoining uses, population density, median income and housing prices for these projects are very similar to those of the larger set.

On the next page, I have reshown all of the 21 matched pairs specific to these 12 solar farms over 20 MW. This set shows impacts ranging from -10% to +7% with an average and median of +1%, which is very similar to the larger set. This suggests that the size of a project has no bearing on adjacent impacts as well.

Residential Dwelling Matched Pairs Adjoining Solar Farms

Pair	Solar Farm	City	State	Area	MW	Approx Distance	Tax ID/Address	Sale Date	Sale Price	Adj. Sale Price	% Diff
21	Summit	Moyock	NC	Suburban	80	1,060	129 Pinto 102 Timber	Apr-16	\$170,000		
22	Summit	Moyock	NC	Suburban	80	2,020	105 Pinto 127 Ranchland	Apr-16 Dec-16	\$175,500 \$206,000	\$169,451	0%
25	Manatee	Parrish	FL	Rural	75	1180	13670 Highland 13851 Highland	Jun-15 Aug-18	\$219,900 \$255,000	\$194,278	6%
26	McBride Place	Midland	NC	Rural	75	275	4380 Joyner 3870 Elkwood	Sep-18 Nov-17	\$240,000 \$325,000	\$255,825	0%
31	Grand Ridge	Streator	IL	Rural	20	480	1497 E 21st 712 Columbus	Aug-16 Jun-16	\$250,000 \$186,000	\$317,523 \$184,000	2% 1%
44	Clarke Cnty	White Post	VA	Rural	20	1230	833 Nations Spr 541 Old Kitchen	Jan-17 Sep-18	\$295,000 \$370,000	\$279,313	5%
45	Turner	Henrico	VA	Rural	20	1540	8573 Strath 9300 Varina	Feb-19 Dec-18	\$204,900 \$186,000	\$207,238	-1%
64	Walker	Barhamsville	VA	Rural	20	250	5241 Barham 9252 Ordinary	Oct-18 Jun-19	\$264,000 \$277,000	\$246,581	7%
69	Summit	Moyock	NC	Suburban	80	570	318 Green View 336 Green View	Sep-19 Jan-19	\$357,000 \$365,000	\$340,286	5%
70	Summit	Moyock	NC	Suburban	80	440	164 Ranchland 105 Longhorn	Apr-19 Oct-17	\$169,000 \$184,500	\$186,616	-10%
71	Summit	Moyock	NC	Suburban	80	635	358 Oxford 176 Providence	Sep-19 Sep-19	\$478,000 \$425,000	\$456,623	4%
72	Summit	Moyock	NC	Suburban	80	970	343 Oxford 218 Oxford	Mar-17 Apr-17	\$490,000 \$525,000	\$484,064	1%
73	Innov 46	Hope Mills	NC	Suburban	78.5	435	6849 Roslin Farm 109 Bledsoe	Feb-19 Jan-19	\$155,000 \$150,000	\$147,558	5%
74	Innov 42	Fayetteville	NC	Suburban	71	340	2923 County Line 2109 John McMillan	Feb-19 Apr-18	\$385,000 \$320,000	\$379,156	2%
75	Innov 42	Fayetteville	NC	Suburban	71	330	2935 County Line 7031 Glynn Mill	Jun-19 May-18	\$266,000 \$255,000	\$264,422	1%
76	Demille	Lapeer	MI	Suburban	28	310	1120 Don Wayne 1231 Turrill	Aug-19 Apr-19	\$194,000 \$182,000	\$200,895	-4%
77	Demille	Lapeer	MI	Suburban	28	310	1126 Don Wayne 3565 Garden	May-18 May-19	\$160,000 \$165,000	\$163,016	-2%
78	Demille	Lapeer	MI	Suburban	28	380	1138 Don Wayne 1128 Gwen	Aug-19 Aug-18	\$191,000 \$187,500	\$189,733	1%
79	Demille	Lapeer	MI	Suburban	28	280	1174 Alice 1127 Don Wayne	Jan-19 Sep-19	\$165,000 \$176,900	\$163,443	1%
80	Turrill	Lapeer	MI	Suburban	20	290	1060 Cliff 1128 Gwen	Sep-18 Aug-18	\$200,500 \$187,500	\$200,350	0%
81	Turrill	Lapeer	MI	Suburban	20	255	1040 Cliff 1127 Don Wayne	Jun-17 Sep-19	\$145,600 \$176,900	\$146,271	0%

	MW	Avg. Distance	Average	%
Average	51.55	647		1%
Median	71.00	435		1%
High	80.00	2,020		7%
Low	20.00	250		-10%

It's useful to note that Matched Pair 69 on Green View Drive is within a golf course community that adjoins the solar farm, but that test pair has no golf view.

I also note that Matched Pairs 72 and 75 were new homes that were built after the solar farm was constructed so the adjoining solar farm was not a limiting factor on construction in those cases.

I have also researched information on a number of larger solar farm projects across the country where many are newer and there have not been any adjoining sales for analysis at this time, but do show a similar range of adjoining uses as those projects listed above.

On the following page I show 63 projects ranging in size from 50 MW up to 1,000 MW with an average size of 118.48 MW and a median of 80 MW. The average closest distance for an adjoining home is 241 feet, while the median distance is 175 feet. The closest distance is 57 feet. The mix of adjoining uses is similar with most of the adjoining uses remaining residential or agricultural in nature.

Parcel #	State	County	City	Name	Output (MW)	Total Acres	Used Acres	Avg. Dist to home	Closest Home	Adjoining Use by Acre			
										Res	Agri	Agri/Res	Com
78	NC	Currituck	Moyock	Summit/Ranchland	80	2034		674	360	4%	94%	0%	2%
133	MS	Forrest	Hattiesburg	Hattiesburg	50	1129	479.6	650	315	35%	65%	0%	0%
179	SC	Jasper	Ridgeland	Jasper	140	1600	1000	461	108	2%	85%	13%	0%
211	NC	Halifax	Enfield	Chestnut	75	1428.1		1,429	210	4%	96%	0%	0%
222	VA	Mecklenburg	Chase City	Grasshopper	80	946.25				6%	87%	5%	1%
226	VA	Louisa	Louisa	Belcher	88	1238.1			150	19%	53%	28%	0%
305	FL	Pasco	Dade City	Mountain View	55	347.12		510	175	32%	39%	21%	8%
319	FL	Hamilton	Jasper	Hamilton	74.9	1268.9	537	3,596	240	5%	67%	28%	0%
336	FL	Manatee	Parrish	Manatee	74.5	1180.4		1,079	625	2%	50%	1%	47%
337	FL	DeSoto	Arcadia	Citrus	74.5	640				0%	0%	100%	0%
338	FL	Charlotte	Port Charlotte	Babcock	74.5	422.61				0%	0%	100%	0%
353	VA	Accomack	Oak Hall	Amazon East(ern shore)	80	1000		645	135	8%	75%	17%	0%
364	VA	Culpepper	Stevensburg	Greenwood	100	2266.6	1800	788	200	8%	62%	29%	0%
368	NC	Duplin	Warsaw	Warsaw	87.5	585.97	499	526	130	11%	66%	21%	3%
390	NC	Richmond	Ellerbe	Innovative Solar 34	50	385.24	226	N/A	N/A	1%	99%	0%	0%
399	NC	Cabarrus	Midland	McBride	74.9	974.59	627	1,425	140	12%	78%	9%	0%
400	FL	Polk	Mulberry	Alafia	51	420.35		490	105	7%	90%	3%	0%
406	VA	Halifax	Clover	Foxhound	91	1311.8		885	185	5%	61%	17%	18%
410	FL	Gilchrist	Trenton	Trenton	74.5	480		2,193	775	0%	26%	55%	19%
411	NC	Edgecombe	Battleboro	Fern	100	1235.4	960.71	1,494	220	5%	76%	19%	0%
412	MD	Caroline	Goldsboro	Cherrywood	202	1722.9	1073.7	429	200	10%	76%	13%	0%
434	NC	Edgecombe	Conetoe	Conetoe	80	1389.9	910.6	1,152	120	5%	78%	17%	0%
440	FL	Volusia	Debary	Debary	74.5	844.63		654	190	3%	27%	0%	70%
441	FL	Alachua & Pt	Hawthorne	Horizon	74.5	684				3%	81%	16%	0%
484	VA	Southampton	Newsoms	Southampton	100	3243.9		-	-	3%	78%	17%	3%
486	VA	Augusta	Stuarts Draft	Augusta	125	3197.4	1147	588	165	16%	61%	16%	7%
491	NC	Stanly	Misenheimer	Misenheimer 2018	80	740.2	687.2	504	130	11%	40%	22%	27%
494	VA	King and Que	Shackelfords	Walnut	110	1700	1173	641	165	14%	72%	13%	1%
496	VA	Halifax	Clover	Piney Creek	80	776.18	422	523	195	15%	62%	24%	0%
511	NC	Halifax	Scotland Neck	American Beech	160	3255.2	1807.8	1,262	205	2%	58%	38%	3%
514	NC	Rockingham	Reidsville	Williamsburg	80	802.6	507	734	200	25%	12%	63%	0%
517	VA	Rocky	Luray	Cape	100	566.53	461	519	110	42%	12%	46%	0%
518	VA	Greensville	Emporia	Fountain Creek	80	798.3	595	862	300	6%	23%	71%	0%
525	NC	Washington	Plymouth	Macadamia	484	5578.7	4813.5	1,513	275	1%	90%	9%	0%
526	NC	Cleveland	Mooreboro	Broad River	50	759.8	365	419	70	29%	55%	16%	0%
555	FL	Polk	Mulberry	Durrance	74.5	463.57	324.65	438	140	3%	97%	0%	0%
560	NC	Yadkin	Yadkinville	Sugar	60	477	357	382	65	19%	39%	20%	22%
561	NC	Halifax	Enfield	Halifax 80mw 2019	80	1007.6	1007.6	672	190	8%	73%	19%	0%
577	VA	Isle of Wight	Windsor	Windsor	85	564.1	564.1	572	160	9%	67%	24%	0%
579	VA	Spotsylvania	Paytes	Spotsylvania	500	6412	3500			9%	52%	11%	27%
582	NC	Rowan	Salisbury	China Grove	65	428.66	324.26	438	85	58%	4%	38%	0%
583	NC	Stokes	Walnut Cove	Lick Creek	50	1424	185.11	410	65	20%	64%	11%	5%
584	NC	Halifax	Enfield	Sweetleaf	94	1956.3	1250	968	160	5%	63%	32%	0%
586	VA	King William	Aylett	Sweet Sue	77	1262	576	1,617	680	7%	68%	25%	0%
593	NC	Bertie	Windsor	Sumac	120	3360.6	1257.9	876	160	4%	90%	6%	0%
599	TN	Payette	Somerville	Yum Yum	147	4000	1500	1,862	330	3%	32%	64%	1%
602	GA	Burke	Waynesboro	White Oak	76.5	516.7	516.7	2,995	1,790	1%	34%	65%	0%
603	GA	Taylor	Butler	Butler GA	103	2395.1	2395.1	1,534	255	2%	73%	23%	2%
604	GA	Taylor	Butler	White Pine	101.2	505.94	505.94	1,044	100	1%	51%	48%	1%
605	GA	Candler	Metter	Live Oak	51	417.84	417.84	910	235	4%	72%	23%	0%
606	GA	Jeff Davis	Hazelhurst	Hazelhurst II	52.5	947.15	490.42	2,114	105	9%	64%	27%	0%
607	GA	Decatur	Bainbridge	Decatur Parkway	80	781.5	781.5	1,123	450	2%	27%	22%	49%
608	GA	Sumter	Leslie-DeSoto	Americus	1000	9661.2	4437	5,210	510	1%	63%	36%	0%
616	FL	Colombia	Fort White	Fort White	74.5	570.5	457.2	828	220	12%	71%	17%	0%
621	VA	Surry	Spring Grove	Loblolly	150	2181.9	1000	1,860	110	7%	62%	31%	0%
622	VA	Albemarle	Scottsville	Woodridge	138	2260.9	1000	1,094	170	9%	63%	28%	0%
625	NC	Nash	Middlesex	Phobos	80	754.52	734	356	57	14%	75%	10%	0%
628	MI	Lenawee	Deerfield	Carroll Road	200	1694.8	1694.8	343	190	12%	86%	0%	2%
633	VA	Greensville	Emporia	Brunswick	150.2	2076.4	1387.3	1,091	240	4%	85%	11%	0%
634	NC	Surry	Elkin	Partin	50	429.4	257.64	945	155	30%	25%	15%	30%
638	GA	Twiggs	Dry Branch	Twiggs	200	2132.7	2132.7	-	-	10%	55%	35%	0%
639	NC	Cumberland	Hope Mills	Innovative Solar 46	78.5	531.87	531.87	423	125	17%	83%	0%	0%
640	NC	Cumberland	Hope Mills	Innovative Solar 42	71	413.99	413.99	375	135	41%	59%	0%	0%
Total Number of Solar Farms					63								
Average					118.48	1533.1	1043.6	1058	241	11%	60%	24%	6%
Median					80.00	1000.0	657.1	808	175	7%	64%	19%	0%
High					1000.00	9661.2	4813.5	5210	1790	58%	99%	100%	70%
Low					50.00	347.1	185.1	343	57	0%	0%	0%	0%

III. Distance Between Homes and Solar Panels

I have measured distances at matched pairs as close as 125 feet between panel and home to show no impact on value. This measurement goes from the closest point on the home to the closest solar panel. This is a strong indication that at this distance there is no impact on adjoining homes.

However, in tracking other approved solar farms across North Carolina and other states, I have found that it is common for there to be homes within 100 to 150 feet of solar panels. Given the landscaping involved in these there is no sign of negative impact. I do note that the landscaping tends to be larger at time of planting when the panels are closer to homes.

I have also tracked a number of locations where solar panels are between 50 and 100 feet of single family homes. In these cases the landscaping is typically a double row of more mature evergreens at time of planting. This is atypical and most solar farms that have been approved have generally been over 100 feet from the closest point on adjoining residential structures.

The closest home at the subject property is 240 feet away from the closest panel and the average distance is 976 feet. These distances are significantly further than matched pairs support which strongly supports the assertion that the setbacks and distances are sufficient.

IV. Topography

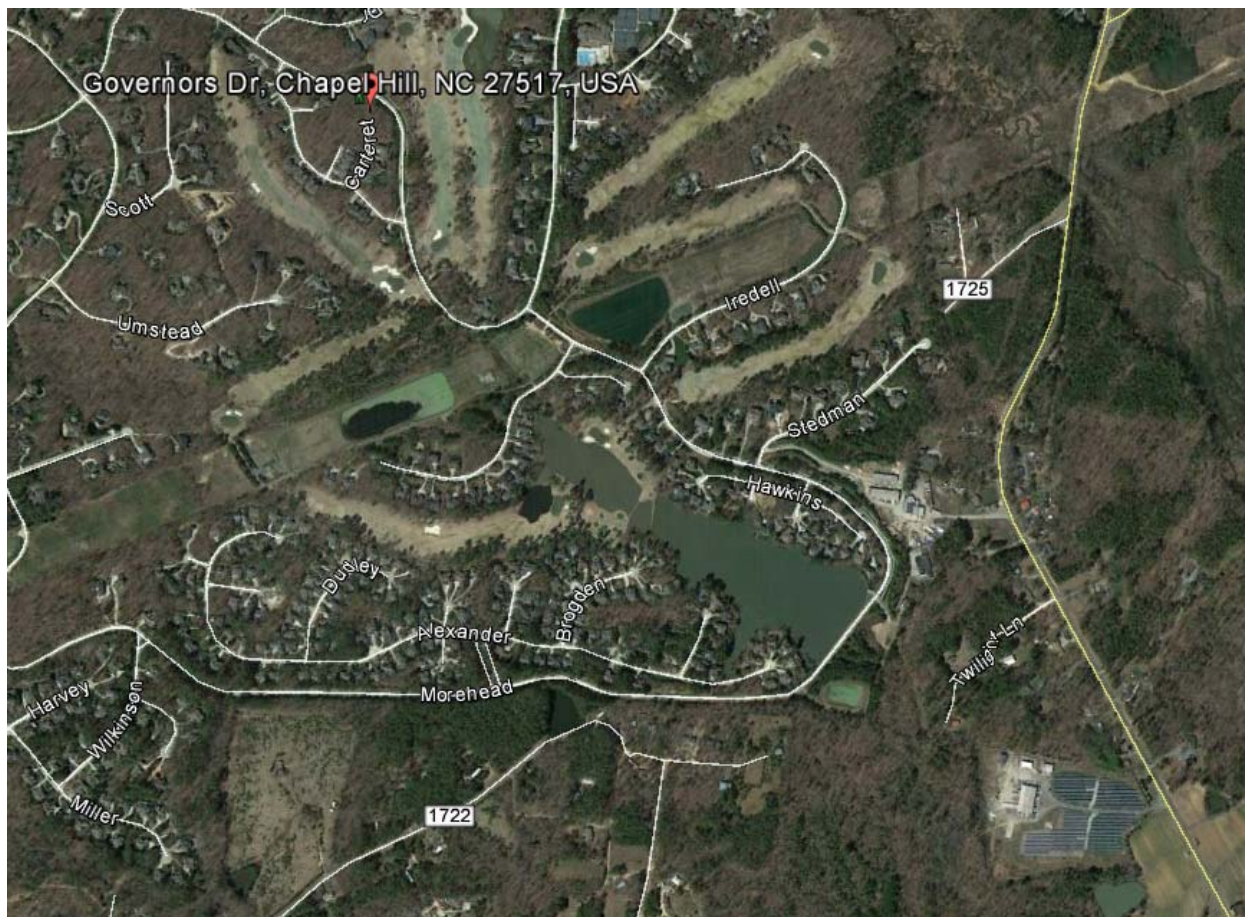
Landscaping screens work very well at hiding solar farms on flat land, though they certainly do not make solar farms invisible. However, in areas where there is rolling topography screening will not likely cover all possible views of a solar farm. Landscaping screens in areas with rolling or steep topography typically covers the upclose views with generalized distant views of the panels. I have included a number of matched pairs with similar strong topography with no additional distance or setbacks being required for those projects. Where the topography is rolling and distant views are possible, those are also areas where a lot of area is visible and the small portion of the overall view that could be visible has shown no impact.

I have measured topographic shifts across solar farms included in the matched pairs between 80 and 150 feet height differential across the project. The larger set of comparables have shown differences even greater than that. In those cases the fact that there is a distant view of the panels has shown no impact on property values or development patterns.

The subject property shows a 120 foot topographic difference, which is well supported by the matched pairs and supports the assertion of no impact on property values.

V. Harmony of Use/Compatibility

I have researched over 600 solar farms and sites on which solar farms are proposed in North Carolina and Virginia as well as other states to determine what uses and types of areas are compatible and harmonious with a solar farm. The data I have collected and provide in this report strongly supports the compatibility of solar farms with adjoining agricultural and residential uses. While I have focused on adjoining uses, I note that there are many examples of solar farms being located within a quarter mile of residential developments, including such notable developments as Governor's Club in Chapel Hill, which has a solar farm within a quarter mile as you can see on the following aerial map. Governor's Club is a gated golf community with homes selling for \$300,000 to over \$2 million.



The subdivisions included in the matched pair analysis also show an acceptance of residential uses adjoining solar farms as a harmonious use.

Beyond these anecdotal references, I have quantified the adjoining uses for a number of solar farm comparables to derive a breakdown of the adjoining uses for each solar farm. The chart below shows the breakdown of adjoining or abutting uses by total acreage.

Percentage By Adjoining Acreage									
	Res	Ag	Res/AG	Comm	Ind	Avg. Dist to Home	Closest Home	All Res Uses	All Comm Uses
Average	19%	53%	20%	1%	7%	849	346	92%	8%
Median	11%	57%	8%	0%	0%	661	215	100%	0%
High	100%	100%	100%	80%	96%	4,835	4,670	100%	96%
Low	0%	0%	0%	0%	0%	90	25	0%	0%

Res = Residential, Ag = Agriculture, Sub = Substation, Com = Commercial, Ind = Industrial.

Total Solar Farms Considered: 493

I have also included a breakdown of each solar farm by number of adjoining parcels rather than acreage. Using both factors provides a more complete picture of the neighboring properties.

Percentage By Number of Parcels Adjoining									
	Res	Ag	Res/AG	Comm	Ind	Avg. Dist to Home	Closest Home	All Res Uses	All Comm Uses
Average	61%	24%	9%	2%	4%	848	346	94%	6%
Median	65%	20%	5%	0%	0%	661	215	100%	0%
High	100%	100%	100%	60%	78%	4,835	4,670	100%	78%
Low	0%	0%	0%	0%	0%	90	25	22%	0%

Res = Residential, Ag = Agriculture, Sub = Substation, Com = Commercial, Ind = Industrial.

Total Solar Farms Considered: 493

Both of the above charts show a marked residential and agricultural adjoining use for most solar farms. Every single solar farm considered included an adjoining residential or residential agricultural use. These comparable solar farms clearly support a compatibility with adjoining residential uses along with agricultural uses.

VI. Specific Factors on Harmony with the Area

I have completed a number of Impact Studies related to a variety of uses and I have found that the most common areas for impact on adjoining values typically follow the following hierarchy with descending levels of potential impact. I will discuss each of these categories and how they relate to a solar farm.

1. Hazardous material
2. Odor
3. Noise
4. Traffic
5. Stigma
6. Appearance

1. Hazardous material

The solar farm presents no potential hazardous waste byproduct as part of normal operation. Any fertilizer, weed control, vehicular traffic, or construction will be significantly less than typically applied in a residential development or even most agricultural uses.

The various solar farms that I have inspected and identified in the addenda have no known environmental impacts associated with the development and operation.

2. Odor

The various solar farms that I have inspected produced no odor.

3. Noise

Whether discussing passive fixed solar panels, or single-axis trackers, there is no negative impact associated with noise from a solar farm. The transformer reportedly has a hum similar to an HVAC that can only be heard in close proximity to this transformer and the buffers on the property are sufficient to make emitted sounds inaudible from the adjoining properties. No sound is emitted from the facility at night.

The various solar farms that I have inspected were inaudible from the roadways.

4. Traffic

The solar farm will have no onsite employee's or staff. The site requires only minimal maintenance. Relative to other potential uses of the site (such as a residential subdivision), the additional traffic generated by a solar farm use on this site is insignificant.

5. Stigma

There is no stigma associated with solar farms and solar farms and people generally respond favorably towards such a use. While an individual may express concerns about proximity to a solar farm, there is no specific stigma associated with a solar farm. Stigma generally refers to things such as adult establishments, prisons, rehabilitation facilities, and so forth.

Solar panels have no associated stigma and in smaller collections are found in yards and roofs in many residential communities. Solar farms are adjoining elementary, middle and high schools as well as churches and subdivisions. I note that Solar Farm Matched Pair Set 9 in this report not only

adjoins a church, but is actually located on land owned by the church. Solar panels on a roof are often cited as an enhancement to the property in marketing brochures.

I see no basis for an impact from stigma due to a solar farm.

6. Appearance

I note that larger solar farms using fixed or tracking panels are a passive use of the land that is in keeping with a rural/residential area. As shown below, solar farms are comparable to larger greenhouses. This is not surprising given that a greenhouse is essentially another method for collecting passive solar energy. The greenhouse use is well received in residential/rural areas and has a similar visual impact as a solar farm.



The solar panels are all less than 15 feet high, which means that the visual impact of the solar panels will be similar in height to a typical greenhouse and lower than a single story residential dwelling. Were the subject property developed with single family housing, that development would have a much greater visual impact on the surrounding area given that a two-story home with attic could be three to four times as high as these proposed panels.

7. Conclusion

On the basis of the factors described above, it is my professional opinion that the proposed solar farm will be in harmony with the area in which it is to be developed. The breakdown of adjoining uses is similar to the other solar farms tracked.

VII. Conclusion

The matched pair analysis shows no impact in home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all indicate that a solar farm is a compatible use for rural/residential transition areas and that it would function in a harmonious manner with this area.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial injury to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved adjoining agricultural uses, schools, churches, and residential developments. Industrial uses rarely absorb negative impacts from adjoining uses.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no impact on the value of adjoining or abutting property and that the proposed use is in harmony with the area in which it is located. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is no traffic.

If you have any further questions please call me any time.

Sincerely,




NC State Certified General Appraiser # A4359
 VA State Certified General Appraiser # 4001017291
 SC State Certified General Appraiser # 6209
 FL State Certified General Appraiser # RZ3950
 IL State Certified General Appraiser # 553.002633
 OR State Certified General Appraiser # C001204
 GA State Certified General Appraiser #321885
 KY State Certified General Appraiser #5522

C. Limiting Conditions and Assumptions

Acceptance of and/or use of this report constitutes acceptance of the following limiting conditions and assumptions; these can only be modified by written documents executed by both parties.

- ❖ The basic limitation of this and any appraisal is that the appraisal is an opinion of value, and is, therefore, not a guarantee that the property would sell at exactly the appraised value. The market price may differ from the market value, depending upon the motivation and knowledge of the buyer and/or seller, and may, therefore, be higher or lower than the market value. The market value, as defined herein, is an opinion of the probable price that is obtainable in a market free of abnormal influences.
- ❖ I do not assume any responsibility for the legal description provided or for matters pertaining to legal or title considerations. I assume that the title to the property is good and marketable unless otherwise stated.
- ❖ I am appraising the property as though free and clear of any and all liens or encumbrances unless otherwise stated.
- ❖ I assume that the property is under responsible ownership and competent property management.
- ❖ I believe the information furnished by others is reliable, but I give no warranty for its accuracy.
- ❖ I have made no survey or engineering study of the property and assume no responsibility for such matters. All engineering studies prepared by others are assumed to be correct. The plot plans, surveys, sketches and any other illustrative material in this report are included only to help the reader visualize the property. The illustrative material should not be considered to be scaled accurately for size.
- ❖ I assume that there are no hidden or unapparent conditions of the property, subsoil, or structures that render it more or less valuable. I take no responsibility for such conditions or for obtaining the engineering studies that may be required to discover them.
- ❖ I assume that the property is in full compliance with all applicable federal, state, and local laws, including environmental regulations, unless the lack of compliance is stated, described, and considered in this appraisal report.
- ❖ I assume that the property conforms to all applicable zoning and use regulations and restrictions unless nonconformity has been identified, described and considered in this appraisal report.
- ❖ I assume that all required licenses, certificates of occupancy, consents, and other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
- ❖ I assume that the use of the land and improvements is confined within the boundaries or property lines of the property described and that there is no encroachment or trespass unless noted in this report.
- ❖ I am not qualified to detect the presence of floodplain or wetlands. Any information presented in this report related to these characteristics is for this analysis only. The presence of floodplain or wetlands may affect the value of the property. If the presence of floodplain or wetlands is suspected the property owner would be advised to seek professional engineering assistance.
- ❖ For this appraisal, I assume that no hazardous substances or conditions are present in or on the property. Such substances or conditions could include but are not limited to asbestos, urea-formaldehyde foam insulation, polychlorinated biphenyls (PCBs), petroleum leakage or underground storage tanks, electromagnetic fields, or agricultural chemicals. I have no knowledge of any such materials or conditions unless otherwise stated. I make no claim of technical knowledge with regard to testing for or identifying such hazardous materials or conditions. The presence of such materials, substances or conditions could affect the value of the property. However, the values estimated in this

report are predicated on the assumption that there are no such materials or conditions in, on or in close enough proximity to the property to cause a loss in value. The client is urged to retain an expert in this field, if desired.

- ❖ Unless otherwise stated in this report the subject property is appraised without a specific compliance survey having been conducted to determine if the property is or is not in conformance with the requirements of the Americans with Disabilities Act (effective 1/26/92). The presence of architectural and/or communications barriers that are structural in nature that would restrict access by disabled individuals may adversely affect the property's value, marketability, or utility.
- ❖ Any allocation of the total value estimated in this report between the land and the improvements applies only under the stated program of utilization. The separate values allocated to the land and buildings must not be used in conjunction with any other appraisal and are invalid if so used.
- ❖ Possession of this report, or a copy thereof, does not carry with it the right of publication.
- ❖ I have no obligation, by reason of this appraisal, to give further consultation or testimony or to be in attendance in court with reference to the property in question unless further arrangements have been made regarding compensation to Kirkland Appraisals, LLC.
- ❖ Neither all nor any part of the contents of this report (especially any conclusions as to value, the identity of the appraiser, or the firm with which the appraiser is connected) shall be disseminated to the public through advertising, public relations, news, sales, or other media without the prior written consent and approval of Kirkland Appraisals, LLC, and then only with proper qualifications.
- ❖ Any value estimates provided in this report apply to the entire property, and any proration or division of the total into fractional interests will invalidate the value estimate, unless such proration or division of interests has been set forth in the report.
- ❖ Any income and expenses estimated in this report are for the purposes of this analysis only and should not be considered predictions of future operating results.
- ❖ This report is not intended to include an estimate of any personal property contained in or on the property, unless otherwise state.
- ❖ This report is subject to the Code of Professional Ethics of the Appraisal Institute and complies with the requirements of the State of North Carolina for State Certified General Appraisers. This report is subject to the certification, definitions, and assumptions and limiting conditions set forth herein.
- ❖ The analyses, opinions and conclusions were developed based on, and this report has been prepared in conformance with, our interpretation of the guidelines and recommendations set forth in the Financial Institutions Reform, Recovery, and Enforcement Act of 1989 (FIRREA).
- ❖ This is a Real Property Appraisal Consulting Assignment.

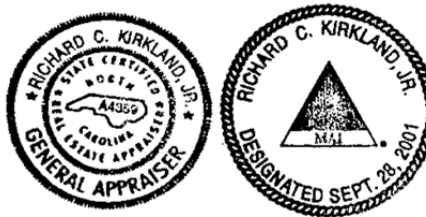
D. Certification

I certify that, to the best of my knowledge and belief:

1. The statements of fact contained in this report are true and correct;
2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions, and conclusions;
3. I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved;
4. I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment;
5. My engagement in this assignment was not contingent upon developing or reporting predetermined results;
6. My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of the appraisal;
7. The reported analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute;
8. The reported analyses, opinions and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice.
9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives;
10. I have not made a personal inspection of the property that is the subject of this report and;
11. No one provided significant real property appraisal assistance to the person signing this certification.
12. As of the date of this report I have completed the requirements of the continuing education program of the Appraisal Institute;
13. I have not completed any appraisal related assignment on this property within the last three years. I provided an earlier draft of this report on October 31, 2019 and again on February 28, 2020 and March 3, 2020. This version includes additional matched pair data.

Disclosure of the contents of this appraisal report is governed by the bylaws and regulations of the Appraisal Institute and the National Association of Realtors.

Neither all nor any part of the contents of this appraisal report shall be disseminated to the public through advertising media, public relations media, news media, or any other public means of communications without the prior written consent and approval of the undersigned.

Richard C. Kirkland, Jr., MAI
 NC State Certified General Appraiser # A4359
 VA State Certified General Appraiser # 4001017291
 SC State Certified General Appraiser # 6209
 FL State Certified General Appraiser # RZ3950
 IL State Certified General Appraiser # 553.002633
 OR State Certified General Appraiser # C001204
 GA State Certified General Appraiser #321885
 KY State Certified General Appraiser #5522



Kirkland Appraisals, LLC

Richard C. Kirkland, Jr., MAI
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Raleigh, North Carolina 27603
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Professional Experience

Kirkland Appraisals, LLC , Raleigh, N.C. Commercial appraiser	2003 – Present
Hester & Company , Raleigh, N.C. Commercial appraiser	1996 – 2003

Professional Affiliations

MAI (Member, Appraisal Institute) designation #11796	2001
NC State Certified General Appraiser # A4359	1999
VA State Certified General Appraiser # 4001017291	
SC State Certified General Appraiser # 6209	
FL State Certified General Appraiser # RZ3950	
IL State Certified General Appraiser # 553.002633	
OR State Certified General Appraiser # C001204	
KY State Certified General Appraiser # 5522	

Education

Bachelor of Arts in English , University of North Carolina, Chapel Hill	1993
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Continuing Education

Income Approach Case Studies for Commercial Appraisers	2018
Introduction to Expert Witness Testimony for Appraisers	2018
Appraising Small Apartment Properties	2018
Florida Appraisal Laws and Regulations	2018
Uniform Standards of Professional Appraisal Practice Update	2018
Appraisal of REO and Foreclosure Properties	2017
Appraisal of Self Storage Facilities	2017
Land and Site Valuation	2017
NCDOT Appraisal Principles and Procedures	2017
Uniform Standards of Professional Appraisal Practice Update	2016
Forecasting Revenue	2015
Wind Turbine Effect on Value	2015
Supervisor/Trainee Class	2015
Business Practices and Ethics	2014
Subdivision Valuation	2014
Uniform Standards of Professional Appraisal Practice Update	2014
Introduction to Vineyard and Winery Valuation	2013
Appraising Rural Residential Properties	2012
Uniform Standards of Professional Appraisal Practice Update	2012
Supervisors/Trainees	2011
Rates and Ratios: Making sense of GIMs, OARs, and DCFs	2011
Advanced Internet Search Strategies	2011

Analyzing Distressed Real Estate	2011
Uniform Standards of Professional Appraisal Practice Update	2011
Business Practices and Ethics	2011
Appraisal Curriculum Overview (2 Days – General)	2009
Appraisal Review - General	2009
Uniform Standards of Professional Appraisal Practice Update	2008
Subdivision Valuation: A Comprehensive Guide	2008
Office Building Valuation: A Contemporary Perspective	2008
Valuation of Detrimental Conditions in Real Estate	2007
The Appraisal of Small Subdivisions	2007
Uniform Standards of Professional Appraisal Practice Update	2006
Evaluating Commercial Construction	2005
Conservation Easements	2005
Uniform Standards of Professional Appraisal Practice Update	2004
Condemnation Appraising	2004
Land Valuation Adjustment Procedures	2004
Supporting Capitalization Rates	2004
Uniform Standards of Professional Appraisal Practice, C	2002
Wells and Septic Systems and Wastewater Irrigation Systems	2002
Appraisals 2002	2002
Analyzing Commercial Lease Clauses	2002
Conservation Easements	2000
Preparation for Litigation	2000
Appraisal of Nonconforming Uses	2000
Advanced Applications	2000
Highest and Best Use and Market Analysis	1999
Advanced Sales Comparison and Cost Approaches	1999
Advanced Income Capitalization	1998
Valuation of Detrimental Conditions in Real Estate	1999
Report Writing and Valuation Analysis	1999
Property Tax Values and Appeals	1997
Uniform Standards of Professional Appraisal Practice, A & B	1997
Basic Income Capitalization	1996

LEGAL DESCRIPTION

Being all of Property A acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at an iron pin found (rebar with survey cap stamped PLS #1880) at the southeast corner of Moss (DB 152, PG 502) said pin being on the southwest right-of-way of KY Highway 39 and 860 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the **Point of Beginning for this description**; Thence leaving Moss and with KY Highway 39 S31°07'47"E – 60.93 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Garrard County Fire District No. 1 (DB 145, PG 304); Thence leaving KY Highway 39 and with Garrard County Fire District No. 1 S68°52'02"W – 170.97 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence leaving Lancaster-Garrard County Fire District No. 1 and with Curry Farms FLP, LTD. N32°43'44"W – 61.84 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of the aforementioned Moss; Thence leaving Curry Farms FLP, LTD. and with Moss N69°03'26"E – 172.83 feet to the point of beginning and containing 0.238 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being a portion of Property B, Parcel I, Tract I acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at an iron pin found (rebar with survey cap stamped PLS #1880) at the north corner of James Crouch (DB 290 PG 270), said pin being on the west edge of right-of-way of KY Highway 39 in Lancaster, Garrard County, Kentucky and being the **Point of Beginning for this description**; Thence leaving Crouch and with KY Highway 39 the following eleven (11) courses: N41°05'00"W – 22.98 feet to a point, N38°25'11"W – 38.54 feet to a point, N36°07'35"W – 73.35 feet to a point, N16°13'26"W – 104.29 feet to a point, N01°06'07"W – 37.67 feet to a point, N02°37'00"E – 88.28 feet to a point, N03°55'04"E – 189.33 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being 30 feet from the center of KY Highway 39, N02°48'52"E – 425.30 feet to a point, along a curve to the left having arc length 309.31 feet, radius 2064.85 feet, chord length 309.02 feet, chord bearing N01°28'36"W, along a curve to the right having arc length 666.44 feet, radius 2514.18 feet, chord length 664.49 feet, chord bearing N01°49'32"E to a point 30 feet from the center of KY Highway 39 and N81°27'06"W – 30.00 feet to a point in the center of the stream, said point being a corner of Rich (DB 210, PG 334); Thence leaving KY Highway 39 and with Rich the following four (4) courses: N81°27'06"W – 217.94 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°17'55"W – 631.33 feet to an iron pin found (rebar with survey cap stamped PLS #1880), N80°49'14"W – 99.03 feet to a point in the stream and N47°57'06"W – 188.10 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Rich (DB 131, PG 548); Thence with Rich S09°10'31"W – 24.67 feet to a point in the center of the stream; Thence the meanders of the stream twenty-eight (28) courses: N59°15'41"W - 99.94 feet, N42°29'37"W - 28.91 feet, N56°33'08"W - 50.35 feet, N76°46'59"W - 20.42 feet, N44°47'12"W - 38.95 feet, N57°47'57"W - 36.22 feet, N46°30'27"W - 19.75 feet, N66°49'57"W - 25.82 feet, S87°54'59"W - 16.33 feet, N51°11'17"W - 52.83 feet to a point in the center of the stream, said point referenced by an iron pin set on the southwest bank of the stream located S01°19'15"E – 20.69 feet from the point, N59°40'38"W - 43.96 feet, N66°35'35"W - 31.78 feet, N60°54'14"W - 30.18 feet, N46°37'32"W - 27.83 feet, N77°39'24"W - 29.67 feet, N58°16'32"W - 28.67 feet, N39°00'08"W - 19.91 feet, N18°55'55"W - 28.65 feet, N51°57'19"W - 32.32 feet, N49°50'08"W - 36.69 feet, N73°49'00"W - 22.47 feet, N49°04'21"W - 32.62 feet, N38°14'30"W - 31.38 feet, N42°30'28"W - 57.45 feet, S64°38'56"W - 13.50 feet, N89°33'25"W - 13.81 feet, N47°59'14"W - 23.93 feet, and N32°45'59"W - 43.93 feet to a point in the center of the stream, said point being on the boundary of Merriwood Estates (Plat files 1-63, 1-107 and 1-185); Thence leaving Rich and with Merriwood Estates following the meanders of the

stream the following nineteen (19) courses: N00°00'56"E - 8.60 feet, N40°16'40"W - 8.25 feet, N60°07'51"W - 15.36 feet, S82°04'08"W - 14.06 feet, S66°53'11"W - 15.43 feet, N79°52'26"W - 17.95 feet, N47°20'28"W - 22.48 feet, N56°03'25"W - 23.18 feet, N05°18'07"W - 27.87 feet, N45°51'26"W - 13.82 feet, S87°07'32"W - 19.06 feet, N64°13'41"W - 12.93 feet, N42°30'01"W - 25.10 feet, N55°23'16"W - 6.87 feet, N78°44'35"W - 9.45 feet, N23°15'50"W - 20.75 feet, N48°13'43"W - 12.44 feet, N13°47'57"W - 79.22 feet and N27°13'17"W - 6.64 feet to a point in the center of the stream, said point being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence leaving Merriwood Estates and with Curry Farms FLP, LTD. S59°12'06"W passing a witness pin set at 12.03 feet and continuing a total distance of 1230.98 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence with Curry Farms FLP, LTD. the following three (3) courses: S20°02'54"E – 426.36 feet to an iron pin set, S24°32'54"E – 409.20 feet to an iron pin set and S33°01'21"E – 162.26 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract II); Thence with Curry Farms FLP, LTD. the following three (3) courses: S33°25'12"E – 996.60 feet to an iron pin set, S29°04'48"W – 403.26 feet to an iron pin set and S44°23'06"W – 2289.91 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel III); Thence with Curry Farms FLP, LTD. the following two (2) courses: S28°56'47"E – 885.72 feet to an iron pin set and S28°11'46"E – 712.80 feet to an iron pin set, said pin being a corner of Deshon (DB 90, PG 398); Thence with Deshon the following three (3) courses: N44°16'31"E – 2814.41 feet to an iron pin set, N08°07'43"E – 458.88 feet to an iron pin set and N71°12'41"E – 624.87 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Crouch (DB 290, PG 270); Thence leaving Deshon and with Crouch the following four (4) courses: N00°08'51"E – 225.96 feet to an iron pin found (rebar with survey cap stamped PLS #1880), N08°38'49"E – 171.09 feet to an iron pin found (rebar with survey cap stamped PLS #1880), N08°38'23"E – 305.96 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and N48°56'18"E – 238.61 feet to the point of beginning and containing 228.889 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of Property B, Parcel I, Tract II acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. and Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot and Curry Farms FLP, LTD. S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad and Curry Farms FLP, LTD. the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set,

S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E – 136.81 feet to an iron pin set, S05°18'30"W – 167.04 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence continuing with CSX Railroad the following eight (8) courses: S06°58'49"W – 192.76 feet to an iron pin set, S14°53'41"W – 197.84 feet to an iron pin set, S21°38'45"W – 294.30 feet to an iron pin set, S28°22'37"W – 157.77 feet to an iron pin set, S30°49'44"W – 253.36 feet to an iron pin set, S33°51'04"W – 223.29 feet to an iron pin set, S34°48'07"W – 227.97 feet to an iron pin set and S33°48'07"W – 136.83 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract II); Thence leaving CSX Railroad and with Curry Farms FLP, LTD. S28°34'43"E – 744.48 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (Property B, Parcel III); Thence with Curry Farms FLP, LTD. S28°34'43"E – 193.26 feet to an iron pin set, said pin being the **True Point of Beginning for this description**; Thence continuing with Curry Farms FLP, LTD. S28°25'12"E – 915.42 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract I); Thence with Curry Farms FLP, LTD. the following three (3) courses: N44°23'06"E – 2289.91 feet to an iron pin set, N29°04'48"E – 403.26 feet to an iron pin set and N33°25'12"W – 996.60 feet to an iron pin set, said pin being a corner of the aforementioned Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence with Curry Farms FLP, LTD. the following two (2) courses: S55°04'48"W – 1091.64 feet to an iron pin set and S29°34'48"W – 1599.18 feet to an iron pin set to the point of beginning and containing 66.767 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of a 20 feet width strip of land described with Property B, Parcel II acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments) at the south corner of Mack Hulett, Jr. (DB 245, PG 703 Lincoln County Clerk's Office), said pin being on the east edge of right-of-way of Gilberts Creek Road, 20 feet from the center of the road near Lancaster but in Lincoln County, Kentucky and being the **Point of Beginning for this description**; Thence leaving Hulett and with Gilberts Creek Road S02°18'55"W – 28.42 feet to an iron pin set, said pin being on the northwest edge of right-of-way of CSX Railroad; Thence leaving Gilberts Creek Road and with CSX Railroad the following six (6) courses: N47°02'10"E – 64.25 feet to a point, N45°07'25"E – 217.13 feet to a point, N43°32'54"E – 303.61 feet to a point, N41°57'17"E – 360.17 feet to a point in Garrard County, N40°10'14"E – 290.88 feet to a point and N39°08'23"E – 330.17 feet to an iron pin set, said pin being a corner of the aforementioned Hulett; Thence leaving CSX Railroad and with Hulett the following seven (7) courses: N50°32'23"W – 20.00 feet to an iron pin found (rebar with no cap), S39°08'23"W – 330.10 feet to an iron pin found (rebar with survey cap stamped PLS #3118), S40°10'14"W – 290.39 feet to an iron pin found (rebar with survey cap stamped PLS #3118), S41°57'17"W – 359.58 feet to an iron pin found in Lincoln County (rebar with no cap), S43°32'54"W – 303.06 feet to an iron pin found (rebar with survey cap stamped PLS #3118), S45°07'25"W – 216.53 feet to an iron pin set and S47°02'10"W – 43.72 feet to the point of beginning and containing 0.714 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of Property B, Parcel II, Tract I acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. and Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot and Curry Farms FLP, LTD. S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad and Curry Farms FLP, LTD. the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set,

S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E – 136.81 feet to an iron pin set, S05°18'30"W – 167.04 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence continuing with CSX Railroad the following eight (8) courses: S06°58'49"W – 192.76 feet to an iron pin set, S14°53'41"W – 197.84 feet to an iron pin set, S21°38'45"W – 294.30 feet to an iron pin set, S28°22'37"W – 157.77 feet to an iron pin set, S30°49'44"W – 253.36 feet to an iron pin set, S33°51'04"W – 223.29 feet to an iron pin set, S34°48'07"W – 227.97 feet to an iron pin set and S33°48'07"W – 136.83 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract II); Thence continuing with CSX Railroad the following nine (9) courses: S33°48'07"W – 272.55 feet to an iron pin set, S33°43'07"W – 495.82 feet to an iron pin set, S35°13'07"W – 391.32 feet to an iron pin set, S46°12'07"W – 358.14 feet to an iron pin set, S57°57'03"W – 113.99 feet to an iron pin set, S59°24'03"W passing a witness pin set at 162.65 feet and continuing a total distance of 165.22 feet to a tree, S51°59'29"W passing a witness pin set at 2.35 feet and continuing a total distance of 223.82 feet to an iron pin set, S43°29'29"W – 161.06 feet to an iron pin set and S36°29'29"W – 104.63 feet to an iron pin set, said pin being a corner of Robinson (DB 39, PG 151); Thence leaving CSX Railroad and with Robinson the following three (3) courses: S58°53'37"E – 163.00 feet to an iron pin set, S40°21'23"W – 253.00 feet to an iron pin set and S85°21'23"W – 42.41 feet to an iron pin set, said pin being the **True Point of Beginning for this description**; Thence continuing with Robinson S85°21'23"W – 109.59 feet to an iron pin set, said pin being on the west edge of right-of-way of CSX Railroad; Thence leaving Robinson and with CSX Railroad twenty-two (22) courses: S24°59'29"W - 19.96 feet to an iron pin set, S15°27'21"W - 333.40 feet to an iron pin set, S07°32'36"W - 84.39 feet to an iron pin set, S03°52'17"W - 158.55 feet to an iron pin set, S05°40'06"E - 157.98 feet to an iron pin set, S10°52'53"E - 429.13 feet to an iron pin set, S13°29'21"E - 155.90 feet to a point in the stream, S10°15'14"E - 168.18 feet to a point in the stream, S03°52'50"E - 88.33 feet to an iron pin set, S02°45'53"W - 183.02 feet to a point in the stream, S09°21'35"W - 142.54 feet to a point in the stream, S14°30'48"W - 239.34 feet to a point in the stream, S20°59'52"W - 100.44 feet to a point in the stream, S27°18'54"W - 168.60 feet to an iron pin set, S32°04'46"W - 103.25 feet to an iron pin set, S35°21'41"W - 191.95 feet to an iron pin set, S37°35'58"W - 221.28 feet to an iron pin set S37°51'41"W - 39.41 feet to an iron pin set, S39°08'23"W - 331.50 feet to a point in the stream, S40°10'14"W - 292.50 feet to an iron pin set, S41°57'17"W - 362.12 feet to a point in the stream and S43°32'54"W - 305.18 feet to an iron pin set on the west bank of Gilberts Creek, said pin being a corner of Mullins (DB 257, PG 597, Tract No. 4); Thence leaving CSX Railroad and with Mullins the following five (5) courses: S48°30'00"E – 41.52 feet to a point in the stream, N71°30'00"E – 44.22 feet to an iron pin set on the east bank of Gilberts Creek, N44°30'00"E – 628.32 feet to an iron pin set, N60°30'00"E – 458.04 feet to an iron pin set and N82°00'00"E – 234.96 feet to a point in the center of

Gilberts Creek, said point witnessed by an iron pin set on the northeast bank of the stream and located 21.25 feet from the point; Thence following the meanders of the stream the following six (6) courses: S27°53'38"E - 36.20 feet, S31°40'08"E - 77.93 feet, S44°29'24"E - 45.49 feet, S48°58'25"E - 30.93 feet, S67°29'55"E - 46.62 feet and N75°30'34"E - 73.49 feet to a point in the center of the stream, said point being near the corner of Mullins (DB 257, PG 597, Tract No. 3); Thence continuing along the meanders of the stream with Mullins the following twenty-one (21) courses: N73°45'16"E - 53.23 feet, S83°33'42"E - 36.22 feet, N86°41'03"E - 41.62 feet, N85°26'07"E - 44.48 feet, N72°39'06"E - 27.02 feet, N42°33'13"E - 46.37 feet, N48°27'00"E - 30.04 feet, N67°26'28"E - 31.36 feet, S85°04'34"E - 59.53 feet, N88°32'36"E - 32.91 feet, S75°26'18"E - 70.90 feet, N63°47'12"E - 51.13 feet, N76°48'37"E - 50.11 feet, S76°41'50"E - 74.71 feet, S55°48'15"E - 34.21 feet, N89°14'36"E - 53.41 feet, N77°38'37"E - 28.63 feet, S71°55'59"E - 52.59 feet, N85°53'26"E - 23.96 feet, N61°57'35"E - 14.27 feet and N52°08'31"E - 38.31 feet to a point in the center of the stream near the corner of Rankin (DB 116, PG 471, Tract No. 2), said point referenced by an iron pin set on the north bank of the stream located N19°04'11"W - 16.29 feet from the point; Thence leaving Mullins and with Rankin, continuing along the meanders of the stream the following twenty-two (22) courses: N55°57'21"E - 62.13 feet, N64°36'35"E - 54.42 feet, N71°14'08"E - 37.67 feet, N73°22'49"E - 39.96 feet, N80°06'18"E - 31.95 feet, N56°06'09"E - 27.09 feet, N48°46'27"E - 33.77 feet, N22°52'40"E - 42.25 feet, N25°34'51"E - 40.94 feet, N39°23'37"E - 32.01 feet, N81°34'40"E - 21.10 feet, S67°12'11"E - 29.79 feet, S78°55'58"E - 34.10 feet, N74°17'03"E - 26.20 feet, N46°09'37"E - 39.25 feet, N49°05'43"E - 59.17 feet, N77°04'16"E - 50.28 feet, N71°34'16"E - 49.94 feet, N71°35'38"E - 40.58 feet, N70°44'18"E - 44.88 feet, N58°41'17"E - 27.43 feet and N49°38'38"E - 29.27 feet to a point in the center of the stream, said point being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel III); Thence leaving Rankin and the center of the stream and with Curry Farms FLP, LTD. N27°55'12"W passing a witness pin at 16.65 feet and continuing a total distance of 2901.99 feet to an iron pin set, said pin being a corner of the aforementioned Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract II); Thence N27°55'12"W - 257.78 feet to the point of beginning and containing 77.414 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of Property B, Parcel II, Tract II acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. and Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot and Curry Farms FLP, LTD. S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad and Curry Farms FLP, LTD. the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set,

S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E – 136.81 feet to an iron pin set, S05°18'30"W – 167.04 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence continuing with CSX Railroad the following eight (8) courses: S06°58'49"W – 192.76 feet to an iron pin set, S14°53'41"W – 197.84 feet to an iron pin set, S21°38'45"W – 294.30 feet to an iron pin set, S28°22'37"W – 157.77 feet to an iron pin set, S30°49'44"W – 253.36 feet to an iron pin set, S33°51'04"W – 223.29 feet to an iron pin set, S34°48'07"W – 227.97 feet to an iron pin set and S33°48'07"W – 136.83 feet to an iron pin set, said pin being the **True Point of Beginning for this description**; Thence continuing with CSX Railroad the following nine (9) courses: S33°48'07"W – 272.55 feet to an iron pin set, S33°43'07"W – 495.82 feet to an iron pin set, S35°13'07"W – 391.32 feet to an iron pin set, S46°12'07"W – 358.14 feet to an iron pin set, S57°57'03"W – 113.99 feet to an iron pin set, S59°24'03"W passing a witness pin set at 162.65 feet and continuing a total distance of 165.22 feet to a tree, S51°59'29"W passing a witness pin set at 2.35 feet and continuing a total distance of 223.82 feet to an iron pin set, S43°29'29"W – 161.06 feet to an iron pin set and S36°29'29"W – 104.63 feet to an iron pin set, said pin being a corner of Robinson (DB 39, PG 151); Thence leaving CSX Railroad and with Robinson the following three (3) courses: S58°53'37"E – 163.00 feet to an iron pin set, S40°21'23"W – 253.00 feet to an iron pin set and S85°21'23"W – 42.41 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract I); Thence leaving Robinson and with Curry Farms FLP, LTD. S27°55'12"E – 257.78 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245 PG 703, Property B, Parcel III); Thence N49°25'13"E – 2372.67 feet to an iron pin set, said pin being a corner of the aforementioned Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence N28°34'43"W – 744.48 feet to the point of beginning and containing 25.924 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of Property B, Parcel III acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. and Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot and Curry Farms FLP, LTD. S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad and Curry Farms FLP, LTD. the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set,

S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E – 136.81 feet to an iron pin set, S05°18'30"W – 167.04 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence continuing with CSX Railroad the following eight (8) courses: S06°58'49"W – 192.76 feet to an iron pin set, S14°53'41"W – 197.84 feet to an iron pin set, S21°38'45"W – 294.30 feet to an iron pin set, S28°22'37"W – 157.77 feet to an iron pin set, S30°49'44"W – 253.36 feet to an iron pin set, S33°51'04"W – 223.29 feet to an iron pin set, S34°48'07"W – 227.97 feet to an iron pin set and S33°48'07"W – 136.83 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract II); Thence leaving CSX Railroad and with Curry Farms FLP, LTD. S28°34'43"E – 744.48 feet to an iron pin set, said pin being the **True Point of Beginning for this description**; Thence continuing with Curry Farms FLP, LTD. S49°25'13"W – 2372.67 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract I); Thence with Curry Farms FLP, LTD. S27°55'12"E passing a witness pin at 2885.34 feet and continuing a total distance of 2901.99 feet to a point in the center of the stream, said point being a corner of Rankin (DB 116, PG 471, Tract No. 2); Thence with Rankin following the meanders of the stream sixteen (16) courses: N47°48'56"E - 70.52 feet, S57°02'08"E - 75.17 feet, S75°51'52"E - 35.11 feet, S88°14'48"E - 33.57 feet, N87°28'18"E - 49.42 feet, N78°24'55"E - 38.58 feet, N62°46'43"E - 38.30 feet, N87°15'17"E - 21.51 feet, S83°48'00"E - 88.97 feet, S82°18'48"E - 56.08 feet, S60°27'49"E - 31.61 feet, S50°57'13"E - 35.57 feet, N85°51'32"E - 29.45 feet, N68°54'51"E - 53.28 feet, N64°47'01"E - 90.29 feet and N51°30'50"E - 25.11 feet to a point in the center of the stream near the corner of Rankin (DB 231, PG 724, Parcel No. II, Tract No. 3), said point referenced by an iron pin set on the north bank of the stream located N59°58'40"W – 12.13 feet from the point; Thence continuing with Rankin along the meanders of the stream the following twenty-seven (27) courses: N36°39'47"E - 38.31 feet, N31°56'01"E - 60.05 feet, N60°29'59"E - 19.50 feet, N82°01'01"E - 71.22 feet, N62°23'36"E - 92.26 feet, N14°06'42"E - 56.29 feet, N42°17'05"E - 61.49 feet, N12°45'33"E - 87.11 feet, N47°17'45"W - 12.85 feet, S83°17'20"W - 30.63 feet, N19°46'44"W - 11.18 feet, N26°59'52"E - 44.09 feet, N42°53'31"E - 149.38 feet to a point in the center of the stream, said point referenced by an iron pin set on the north bank of the stream located N24°30'52"W – 12.24 feet from the point, N56°38'34"E - 67.41 feet, N42°25'49"E - 62.20 feet, N60°50'04"E - 103.02 feet, N65°20'09"E - 60.34 feet, N49°10'52"E - 51.68 feet, N65°13'16"E - 30.68 feet, N42°45'20"E - 192.07 feet, N27°15'54"E - 138.66 feet, N46°53'12"E - 95.35 feet, N61°14'35"E - 46.17 feet, N49°05'45"E - 73.74 feet, N35°04'00"E - 33.40 feet, N43°14'51"E - 76.40 feet and N38°22'34"E - 70.39 feet to a point in the center of the stream, said point being a corner of Rankin (DB 231, PG 724, Parcel No. II, Tract No. 2); Thence leaving the center of the stream N01°00'00"W – 44.98 feet to an iron pin set on the north bank of the stream; Thence N43°48'13"E – 80.52 feet to an iron pin set on the north bank of the stream, said pin being a corner of Deshon (DB 90, PG 398, Tract #2); Thence leaving Rankin and with Deshon N28°11'49"W –

390.72 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract I); Thence leaving Deshon and with Curry Farms FLP, LTD. the following two (2) courses: N28°11'46"W – 712.80 feet to an iron pin set and N28°56'47"W – 885.72 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract II); Thence N28°25'12"W – 915.42 feet to an iron pin set, said pin being a corner of aforementioned Curry Farms FLP, LTD. (Property B, Parcel IV, Tract II); Thence N28°34'43"W – 193.26 feet to the point of beginning and containing 171.631 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being a portion of Property B, Parcel IV, Tract I acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being the **True Point of Beginning for this description**; Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set, S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E

– 136.81 feet to an iron pin set and S05°18'30"W – 167.04 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract II); Thence leaving CSX Railroad and with Curry Farms FLP, LTD. N59°12'06"E – 1176.07 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract I); Thence N59°12'06"E passing a witness pin set at 1218.95 feet and continuing a total distance of 1230.98 feet to a point in the center of the stream, said point being on the boundary of Merriwood Estates (Plat files 1-63, 1-107 and 1-185); Thence with Merriwood Estates following the meanders of the stream the following eighty-three (83) courses: N27°13'17"W - 16.51 feet, N88°54'41"W - 18.23 feet, S80°45'13"W - 32.87 feet, N65°14'19"W - 12.29 feet, N46°57'14"W - 16.31 feet, N18°02'07"W - 12.44 feet, N27°58'09"E - 10.85 feet, N35°33'15"W - 40.34 feet, N03°44'05"W - 9.50 feet, N63°45'45"W - 85.61 feet, N60°57'46"W - 25.33 feet, N20°32'35"W - 25.79 feet, N34°06'16"W - 39.34 feet, N27°07'58"W - 13.53 feet, N44°37'02"W - 45.81 feet, N76°28'50"W - 27.24 feet, N24°04'40"W - 10.99 feet, N12°21'43"E - 10.61 feet, N59°16'03"W - 7.84 feet, N88°39'24"W - 12.63 feet, N59°32'44"W - 19.61 feet, N29°45'06"W - 38.26 feet, N55°17'54"W - 13.77 feet, N71°57'01"W - 38.81 feet, N47°24'59"W - 42.91 feet to a point in the center of the stream, said point referenced by an iron pin set on the west bank of the stream located S18°36'02"E – 14.83 feet from the point, N21°36'54"W - 9.59 feet, N11°24'25"E - 30.04 feet, N23°06'36"E - 15.35 feet, N06°30'28"W - 16.12 feet, N69°03'11"W - 20.89 feet, N44°41'19"W - 14.61 feet, N15°55'33"E - 33.98 feet, N09°36'07"E - 54.23 feet, N14°56'48"W - 29.14 feet, N70°32'46"W - 12.87 feet, N02°33'02"W - 46.06 feet, N23°35'58"W - 31.81 feet, N21°34'28"E - 23.89 feet, N04°04'56"W - 57.61 feet to a point in the center of the stream, said point referenced by an iron pin set on the west bank of the stream located S86°56'01"W – 16.29 feet from the point, N27°32'20"W - 15.48 feet, N35°04'06"E - 38.00 feet, N15°02'08"E - 10.72 feet, N02°06'49"W - 8.25 feet, N25°39'14"W - 14.32 feet, N18°16'57"W - 32.05 feet, N36°12'39"W - 36.74 feet, N66°02'51"W - 16.35 feet, N07°01'04"E - 25.09 feet, N55°34'39"E - 5.07 feet, N23°32'22"W - 33.15 feet, N11°01'16"E - 17.41 feet, N63°58'23"W - 30.88 feet, N01°52'19"W - 39.82 feet, N18°44'44"W - 8.69 feet, N01°17'26"E - 25.62 feet, N15°42'13"W - 9.80 feet, N23°56'29"W - 19.87 feet, N09°07'41"W - 28.56 feet to a point in the center of the stream, said point referenced by an iron pin set on the west bank of the stream located N84°01'41"W – 12.06 feet from the point, N31°14'36"E - 22.26 feet, N38°32'00"E - 15.65 feet, N12°48'09"W - 37.40 feet, N09°18'30"W - 27.61 feet, N24°17'40"W - 21.15 feet, N43°21'13"W - 10.94 feet, N00°41'56"E - 14.89 feet, N50°40'11"E - 17.97 feet, N00°54'04"W - 6.98 feet, N35°13'11"W - 32.00 feet, N25°44'11"W - 55.63 feet, N03°05'31"W - 38.74 feet, N37°41'55"E - 26.49 feet, N27°10'38"W - 26.67 feet, N23°22'14"W - 39.53 feet, N47°52'16"W - 30.21 feet, N57°34'48"W - 17.45 feet, N36°05'12"W - 12.20 feet to a point in the center of the stream, said point referenced by an iron pin set on the west bank of the stream located N86°09'13"W – 15.85 feet from the point, N01°31'52"E - 11.67 feet, N22°33'38"W - 16.00 feet, N39°08'21"W - 26.51 feet, N58°13'16"W - 14.23 feet, N37°49'49"W - 31.52 feet, N60°57'57"W - 15.64 feet and N22°00'57"W - 91.41 feet to a point in the center of the stream; Thence leaving

the center of the stream N13°43'26"W – 87.62 feet to an iron pin set, said pin being a corner of The Lancaster Lodge 104 F&M (DB 128, PG 432); Thence leaving Merriwood Estates and with The Lancaster Lodge 104 F&M the following two (2) courses: N08°49'31"W – 32.00 feet to an iron pin set and N32°15'31"W – 88.00 feet to an iron pin found (rebar with no cap), said pin being a corner of Hometown Broadcasting of Lancaster, Incorporated (DB 144, PG 724); Thence leaving The Lancaster Lodge 104 F&M and with Hometown Broadcasting of Lancaster, Incorporated N32°07'35"W – 278.40 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Garrard County Fire District No. 1 (DB 169, PG 394); Thence leaving Hometown Broadcasting of Lancaster, Incorporated and with Garrard County Fire District No. 1 N32°25'00"W – 479.34 feet to an iron pin set, said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract IV, Tract II); Thence leaving Garrard County Fire District No. 1 and with Lancaster-Garrard County Industrial Development Authority, Inc. N32°37'09"W – 237.16 feet to an iron pin set, said pin being a corner of Garrard County Fire District No. 1 (DB 145, PG 304); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Garrard County Fire District No. 1 N32°34'12"W – 370.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property A); Thence leaving Garrard County Fire District No. 1 and with Curry Farms FLP, LTD. N32°43'44"W – 61.84 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moss (DB 191, PG 495); Thence with Moss the following three (3) courses: S42°40'31"W – 136.30 feet to an iron pin found (rebar with survey cap stamped PLS #1880), N54°21'26"W – 106.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and N68°28'04"W – 130.90 feet to the point of beginning and containing 135.901 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being a portion of Property B, Parcel IV, Tract II acquired by Curry Farms FLP, LTD. by deed from James B. Curry, Wilma F. Curry, Jill C. Stinson, Kenneth Eric Stinson and Patricia A. Curry dated the 14th day of May, 2007 and recorded in Deed Book 245, Page 703 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with Moss S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner of Lancaster-Garrard County Industrial Development Authority, Inc. (DB 162, PG 151, Tract III); Thence leaving Moss and with Lancaster-Garrard County Industrial Development Authority, Inc. S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence with the Lancaster-Garrard County Industrial Development Authority, Inc. and Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Lancaster-Garrard County Industrial Development Authority, Inc. and with Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD. the following three (3) courses: S15°21'46"W – 121.62 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S19°10'01"W – 106.18 feet to an iron pin found (rebar with survey cap stamped PLS #1880) and S19°56'33"W – 33.04 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner of Howard and Wilmot (DB 215, PG 103); Thence leaving Moon Eyed Imagineering Company, Inc. and with Howard and Wilmot and Curry Farms FLP, LTD. S20°34'16"W – 191.71 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being on the east edge of right-of-way of CSX Railroad; Thence with CSX Railroad and Curry Farms FLP, LTD. the following fifteen (15) courses: S22°43'22"W – 583.05 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°29'04"W – 148.31 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S22°15'08"W – 253.24 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S14°53'47"W – 63.88 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°45'06"W – 98.63 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S04°06'58"W – 31.20 feet to an iron pin found (rebar with survey cap stamped PLS #1880), S02°19'28"W – 167.75 feet to an iron pin set, S04°06'18"E – 258.57 feet to an iron pin set, S05°08'43"E – 220.96 feet to an iron pin set, S08°16'13"E – 256.42 feet to an iron pin set,

S11°43'24"E – 656.01 feet to an iron pin set, S12°45'10"E – 700.34 feet to an iron pin set, S10°25'52"E – 191.94 feet to an iron pin set, S03°52'55"E – 136.81 feet to an iron pin set and S05°18'30"W – 167.04 feet to an iron pin set, said pin being the **True Point of Beginning for this description**; Thence continuing with CSX Railroad the following eight (8) courses: S06°58'49"W – 192.76 feet to an iron pin set, S14°53'41"W – 197.84 feet to an iron pin set, S21°38'45"W – 294.30 feet to an iron pin set, S28°22'37"W – 157.77 feet to an iron pin set, S30°49'44"W – 253.36 feet to an iron pin set, S33°51'04"W – 223.29 feet to an iron pin set, S34°48'07"W – 227.97 feet to an iron pin set and S33°48'07"W – 136.83 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel II, Tract II); Thence leaving CSX Railroad and with Curry Farms FLP, LTD. S28°34'43"E – 744.48 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel III); Thence S28°34'43"E – 193.26 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract II); Thence the following two (2) courses: N29°34'48"E – 1599.18 feet to an iron pin set and N55°04'48"E – 1091.64 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel I, Tract I); Thence the following three (3) courses: N33°01'21"W – 162.26 feet to an iron pin set, N24°32'54"W – 409.20 feet to an iron pin set and N20°02'54"W – 426.36 feet to an iron pin set, said pin being a corner of the aforementioned Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence S59°12'06"E – 1176.07 feet to the point of beginning and containing 54.630 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being a portion of Tract III of that property acquired by Lancaster-Garrard County Industrial Development Authority, Inc. by deed from Lancaster-Garrard County Industrial Development Corporation dated the 21st day of May, 1993 and recorded in Deed Book 162, Page 151 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a concrete right-of-way monument found at the southwest corner of Moss (DB 300, PG 656) and the northwest corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B), said monument being on the east edge of right-of-way of US Highway 27 and 325 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the Point of Beginning for this description; Thence leaving US Highway 27 and with the boundary common to Moss and Curry Farms FLP, LTD. S36°58'25"E – 271.78 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being the **True Point of Beginning for this description**; Thence leaving Curry Farms FLP, LTD. and with Moss (DB 157, PG 198) S36°58'25"E – 92.21 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner common to Moss (DB 191, PG 495) and Curry Farms FLP, LTD. (DB 254, PG 703, Property B, Parcel IV, Tract I); Thence leaving Moss and with Curry Farms FLP, LTD. S15°29'43"W – 42.29 feet to an iron pin found (rebar with survey cap stamped PLS #1880), said pin being a corner common to Curry Farms FLP, LTD. and Moon Eyed Imagineering Company, Inc. (DB 281, PG 879); Thence leaving Curry Farms FLP, LTD. and with Moon Eyed Imagineering Company, Inc. N36°43'02"W – 83.51 feet to an iron pin set, said pin being a corner common to Moon Eyed Imagineering Company, Inc. and Curry Farms FLP, LTD.; Thence leaving Moon Eyed Imagineering Company, Inc. and with Curry Farms FLP, LTD. N06°55'14"E – 47.83 feet to the point of beginning and containing 0.067 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

LEGAL DESCRIPTION

Being all of Tract IV designated as Tract II acquired by Lancaster-Garrard County Industrial Development Authority, Inc. by deed from Lancaster-Garrard County Industrial Development Corporation dated the 21st day of May, 1993 and recorded in Deed Book 162, Page 151 in the Garrard County Clerk's Office and being more particularly described as follows:

Beginning at a pipe found (5/8" diameter) at the southeast corner of Garrard County Fire District No. 1 (DB 145, PG 304), said pipe being on the southwest right-of-way of KY Highway 39 and 1260 feet south of the intersection of US Highway 27 and KY Highway 39 in Lancaster, Garrard County, Kentucky and being the **Point of Beginning for this description**; Thence leaving Garrard County Fire District No. 1 and with KY Highway 39 S31°03'00"E – 210.10 feet to an iron pin set (5/8" x 18" steel rebar with aluminum survey cap stamped PLS #3816 set, as will be typical for all set corner monuments), said pin being a corner to Garrard County Fire District No. 1 (DB 169, PG 394); Thence leaving KY Highway 39 and with Garrard County Fire District No. 1 S48°19'19"W – 150.16 feet to an iron pin set, said pin being a corner of Curry Farms FLP, LTD. (DB 245, PG 703, Property B, Parcel IV, Tract I); Thence leaving Garrard County Fire District No. 1 and with Curry Farms FLP, LTD. N32°37'09"W – 237.16 feet to an iron pin set, said pin being a corner of the aforementioned Garrard County Fire District No. 1 (DB 145, PG 304); Thence leaving Curry Farms FLP, LTD. and with Garrard County Fire District No. 1 N58°40'47"E – 154.08 feet to the point of beginning and containing 0.775 acres by survey.

This description prepared from a physical survey conducted by VANTAGE Engineering PLC, Kendal Wise, Kentucky PLS #3816 dated the 14th day of March, 2020.



Kendal M. Wise
3/14/2020

Noise and Traffic Assessment

Turkey Creek Solar Facility

March 19, 2020

Prepared for:

Kentucky Siting and Licensing Board
Kentucky Public Service Commission

Prepared by:

Pond

3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092

On behalf of:

Turkey Creek Solar, LLC
400 W. Main Street, Suite 503
Durham, NC 27701

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Attachments:

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Appendix A – Site Plans

1. Introduction

1.1. Project Description

The proposed Turkey Creek Solar Facility will be a 50-megawatt alternating current (MWac) photovoltaic electricity generation facility. The project is located on an approximately 750-acre tract of land one mile south of Lancaster in Garrard County Kentucky. The tract is situated in the south quadrant of the intersection of U.S. Route 27 (US 27) and Kentucky Route 39 (SR 39) (Figure 1). The solar project will cover up to 540 acres of land and will consist of inverters and a utility interconnection substation (Appendix 1). The power generated by the proposed solar facility will be connected to the existing power grid using the transmission line currently traversing the tract. The generating facility will sell power on the wholesale market as a merchant power plant or independent power producer. The solar facility will be enclosed by a six-foot chain-link fence topped with three strands of barbed wire, which will be located at least 200 feet inside of any property boundary. In areas where potential visual or auditory impacts may be of concern, a vegetative buffer will be planted, which will consist of two staggered rows of evergreen shrubs that are at least three feet in height at the time of planting and will grow to at least six feet in height three years after planting. At the end of the project's life, the equipment and electrical infrastructure will be removed from the site, and land may return to farming or other development.

1.2. Existing Land Use and Site Conditions

According to the National Land Cover Database for Garrard County, the existing land use on the proposed project site is predominantly a mix of open pasture for cattle, hay production, and cultivated crops (Figure 2). There are nine farm ponds, numerous farm buildings (e.g., barns and sheds), and narrow wooded corridors along streams, fence rows, and property boundaries, which can be seen from aerial imagery (Figure 3). The Garrard County Property Valuation Office assesses and values the entire tract as Farm. Most of the surrounding land is also used for farming. A small residential development abuts a portion of the tract's eastern boundary. At the northernmost extent of the tract, the adjacent parcels are commercial and exempt county.

2. Noise Study

2.1. Existing Noise Conditions

2.1.1. Nearest Receptor Sites

The nearest noise receptor (i.e., homes, business, schools, etc.) is a single-family residential neighborhood near the northeastern section of the tract that encompasses dwellings located on Ashblock Drive, Long Branch Drive, and Longview Court. The nearest dwelling is located approximately 60 feet from the Turkey Creek Solar Facility property boundary. This property boundary occurs along a stream and vegetative buffer of shrubs and trees that ranges from 20 to 60 feet wide. Although these homes are in close proximity to the property

boundary, no work will be completed within 300 feet of the property boundary at this location. At 300 feet from the property boundary, a 15-foot wide vegetated buffer (double-row of staggered evergreen shrubs) and the 6-foot boundary fence will be installed. According to the proposed plan, the dwelling nearest to any proposed solar structure is located approximately 400 feet away from the nearest solar panel and 626 feet from the nearest inverter.

Other noise receptor sites in the assessment area include a wrecking yard used for vehicle towing services, an automotive body shop, and a flower wholesaler (Figure 4).

2.1.2. Existing Noise from Surrounding Areas

The Garrard County Noise Control Ordinance defines a decibel (dB) as a unit for describing loudness of sound. The Ordinance provides a reference list for judging various noise levels as shown in the table below.

Source	Typical Noise Level (dB)
Rock concerts	140
Car/motorcycle	120
Woodworking machinery	100
Lawn mower	90
Traffic noise	80
Whisper	20

The previously mentioned wrecking yard, automotive body shop, and flower wholesaler contribute to periodic noise in the project vicinity. The wrecking yard contributes to noise via the periodic operation of wreckers and tow trucks. The automotive body shop contributes to periodic noise using hydraulic equipment, manual tools and power tools. The flower wholesaler receives shipments of plants and flowers via trucks and/or cargo vans, which contribute to noise levels associated with the periodic delivery of goods.

The adjacent farms produce noise like the project site as further described in subsequent sections.

Existing traffic contributes to noise within the assessment area. The tract is bounded by two-lane roadways that receive local traffic typical of a rural farming community (i.e., cars, trucks, and tractor trucks with trailering equipment).

These noises typically range from 80 to 120 dB and peak during normal business hours.

2.1.3. Existing On-Site Noise

Existing noise conditions on the proposed project site consist of typical sounds produced from farming and agriculture activities. These noises include trucks, all-terrain vehicles (ATVs), tractors, and other farming equipment used during hay harvesting, baling operations, as well as feed and animal transportation. Other noises experienced on the project site include typical sounds of cattle farms (e.g., cattle bellows) and other rural areas (i.e., insects, birds, and frogs).

2.2. Proposed Construction Noise Conditions

2.2.1. Equipment and Machinery

Because the proposed site is primarily cattle pasture, hay production, and crop production, the need for extensive tree removal and earthmoving is anticipated to be minimal. The construction of the solar facility will use equipment typical for site development (i.e., graders, bulldozers, excavators, dozers, and dump trucks). The U.S. Department of Transportation Federal Highway Administration (FHWA) publishes noise levels for typical construction equipment as shown in the table below. All of the typical construction equipment noise levels fall within the reasonable and acceptable limits established in the Garrard County Noise Ordinance.

Equipment	Typical Noise Level (dBA) 50 feet from Sources
Air Compressor	81
Backhoe	80
Ballast Equalizer	82
Ballast Tamper	83
Chainsaw	85
Compactor	82
Crane Derrick	88
Crane Mobile	83
Dozer	85
Generator	81
Grader	85
Impact Wrench	85
Jack Hammer	88
Loader	85
Pickup Truck	55
Pile Driver (Impact)	101
Pile Driver (Sonic)	96
Pneumatic Tool	85
Pump	76

Rail Saw	90
Rock Drill	98
Roller	74
Saw	76
Scarifier	83
Scraper	89
Shovel	82
Spike Driver	77
Tie Cutter	84
Tie Handler	80
Tie Inserter	85
Tractor	84
Truck	88
Welder/Torch	73

Source: FHWA Construction Noise Handbook, 2009. Table based on EPA Report and measured data. Exact noise levels may vary depending on manufacturer and model.

2.2.2. Roadway Noise During Construction

A temporary increase in traffic is anticipated during the construction phase. The increase in traffic is described in greater detail in Section 3. Based upon the Garrard County Noise Ordinance and the noise levels published by FHWA, the noise contributed by construction vehicles such as cranes, dump trucks and light passenger cars and trucks falls within acceptable ranges if the noise is of short duration and does not occur between 11pm and 6am. Pursuant to the Garrard County Noise Ordinance, loading and unloading of equipment would not occur between 11pm and 6am and would occur several hundred feet inside the property boundary.

2.2.3. Assembly of solar array and construction of facilities

Assembly of the panel tracking system, the installation of solar panels, inverters and other electrical equipment associated with the solar facility and substation will likely employ typical manual hand tools and power tools. These assembly operations will occur several hundred feet to thousands of feet inside the property boundary, will occur during normal business hours on weekdays, and any noise generated by power equipment would be short in duration.

2.3. Proposed Operational Noise Conditions

2.3.1. Solar Array and Tracking System

The solar array associated with this project includes single-axis tracking panels distributed evenly across the site. Tracking systems involve the panels being driven by small, 24-volt brushless DC motors to track the arc of the sun to maximize each panel's potential for solar absorption. Panels would turn no more than five (5)

degrees every 15 minutes and would operate no more than one (1) minute out of every 15-minute period. These tracking motors are a potential source of mechanical noise and are included in this assessment. The sound typically produced by panel tracking motors (NexTracker or equivalent) is approximately 78 dB.

2.3.2. Inverters

The solar facility will employ approximately 12 inverters scattered evenly across the project site. The inverters used for the Turkey Creek Solar Facility will be SMA Sunny Central UP inverters (or similar), which includes a separate voltage supply and cooling system. According to the manufacturer's specifications, the noise emission produced by this inverter is rated at 67.0 dBA at a distance of 10 meters. This noise produced by the inverter is described as a hum and has roughly the same output of a household air-conditioning unit.

2.3.3. Site Operation and Maintenance

2.3.3.1. *Vehicular traffic*

The operation of the Turkey Creek Solar Facility is expected to have a maximum of one (1) technician driving in and out 365 days a year and two or three technicians up to 70 days a year. Work is conducted at night up to 30 days a year. While dispatches are not anticipated on weekends, they remain a possibility in the event of a component outage that would require timely repair in order to limit production impact from the site. Employees will be in mid- or full-sized trucks and will contribute less to traffic noise than a typical single-family home. With the exception of the scenarios mentioned above, vehicular traffic on the project site will be limited to typical weekday work hours.

2.3.3.2. *Maintenance activities*

Typical maintenance activities on the solar facilities will be minor repair and maintenance on the solar panels, tracking systems, electrical wiring, or maintenance/inspections of the inverters. Grounds maintenance will be performed through an integrated land management approach, to include biological and mechanical control of vegetation, with herbicide applications as appropriate to control regulated noxious weeds per local, state, and federal regulations.

2.4. Noise Summary and Conclusions

Noise during the construction phase is expected to temporarily increase during daylight hours, and will be in the form of heavy equipment, passenger cars and trucks, and tool use during assembly of the solar facilities. Noise will be present on the project site during construction; however, due to the size of the project site and the distance to the nearest receptors, construction will not contribute to a significant noise increase when compared to noise currently occurring on site (i.e., the operation of farming equipment for livestock, hay production, and crop harvesting). In addition, periodic noise associated with the solar panel tracking system and the relatively constant noise of inverters will occur during

operation. This increase in noise is also negligible due to the distance of noise generating solar equipment from the nearest noise receptor and the implementation of two rows of evergreen shrubbery. The noise produced by the inverters is 67.0 dBA, which is slightly above that of a typical person-to-person conversation (i.e., 60.0), and will not be a contributor of noise to the nearest receptor (i.e., single-family home) located at 626 feet away with a planted buffer and a strip of trees between the source and receptor. Site visits and maintenance activities, such as mowing, will take place during daylight hours and will not significantly contribute to noise. The noise associated with these activities is very similar to those currently generated onsite by farming activities and offsite by commercial and farm uses. All construction, operation, and maintenance activities will take place in daylight hours and within the Garrard County Noise Control Ordinance requirements (i.e., between 6am and 11pm).

3. Traffic Study

3.1. Existing Road Network and Traffic Conditions

Two major roadways are present in the project vicinity: SR 39 and US 27 (Figure 3). Both roadways are two-lane roads that run north and south and provide access to the City of Lancaster, which is located immediately north of the project site. US 27 has two 12-foot travel lanes with 10-foot paved shoulders. SR 39 is located along the eastern property boundary in two locations. Near the center of the project site, SR 39 has two 10-foot travel lanes and a narrow, grassed shoulder. Near the northern portion of the project site (i.e., closer to Lancaster), SR 39 has two 12-foot travel lanes with 10-foot paved shoulders. The Average Daily Traffic (ADT) is the average number of vehicles traveling two-way passed a specific point or monitoring station in a 24-hour period. There are three ADT monitoring stations in the project vicinity; two along SR 39 and one along US 27. The ADT information in the project vicinity are summarized in the table below.

Station ID	Roadway	Location and Distance (feet) and Direction from the Nearest Property Boundary	ADT (average number of vehicles / 24-period)	Year Assessed
040526	SR 39	Milepoint 5.9 228 feet East	2,830	2016
040A08	SR 39	Milepoint 6.2 533 feet North	2,706	2016
040527	US 27	Milepoint 1.1 3,843 feet West	8,912	2008

3.2. Construction Traffic

As proposed, driveway access on SR 39 and US 27 would provide two points of entry to the project site. The proposed entrances are existing paved driveways located at the northernmost portion of the tract near the commercial developments at the intersection of SR 39 and US 27. At these locations, the roadways are wider and paved shoulders are present.

The construction of the proposed solar facility is expected to take up to eight to twelve months for completion. During construction, a temporary increase in traffic volume associated with travel of construction laborers, delivery of construction equipment and material, delivery of solar panel components and equipment is anticipated. Laborer commutes with passenger vehicles and trucks will occur daily with two traffic peaks (i.e., morning peak and afternoon peak), whereas deliveries of equipment will occur on trailers, flatbeds, or other large vehicles periodically throughout the construction process at various times of day.

3.2.1. Traffic Safety Precautions

Permanent road or lane closures are not anticipated for the construction of the solar facility. However, the presence of signage, signaling, flagmen, and temporary lane closures may be employed to reduce risk of collision on the roadway. For instance, the presence of a flagmen to temporarily stop traffic to allow for a delivery truck and trailer to safely turn into the site may be necessary at times of equipment deliveries. Appropriate signage of trucks entering the highway or slow-moving vehicles will be used to warn oncoming traffic of potential risk.

3.2.2. Impact on Road Infrastructure

Significant degradation to the existing roadways is not anticipated for the proposed project. The increase in localized traffic and the continued entry and exit of heavy trucks or equipment has potential to result in additional wear of the existing roadway or shoulder of the two prospective entrances to the project site. These potential entry points are located off of SR 39 and US 27 at the northernmost portion of the project site. Damage resulting from project construction will be rectified.

Access drives and internal roads will be constructed or improved as needed to accommodate appropriate vehicles and equipment to construct the proposed solar facility. Internal roads will be compacted gravel, which may result in an increase in airborne dust particles. During construction, water may be applied to internal road system to reduce dust generation.

3.3. Operational and Maintenance Traffic

The operation of the Turkey Creek Solar Facility will mostly be un-manned with approximately two employees making site visits a few times a week to inspect the site, ensure proper equipment operation, and note any maintenance needs. Maintenance will occur periodically with more frequent landscape maintenance occurring during the vegetative growing season. Employees will be in mid- or full-sized trucks and will contribute less to vehicle traffic than a typical single-family home. Vehicular traffic on the project site will be limited to typical weekday work hours and will not significantly contribute to additional traffic in the project vicinity.

3.4. Traffic Summary and Conclusions

Traffic in the project vicinity is predicted to increase temporarily during the construction phase of the project. This includes daily morning and evening peaks for construction laborers entering and exiting the project site and periodic delivery of construction materials and equipment. Appropriate signage and traffic directing will occur as necessary to increase driver safety and reduce risk of collisions for approaching traffic. There are not anticipated damages to the existing roadway infrastructure. For facility operation and maintenance, there is no significant increase in traffic (i.e., the expected traffic to be contributed to the area will be less than a typical single-family home).

4. Fugitive Dust Impacts

Land disturbing activities associated with the proposed project may temporarily contribute to airborne materials. To reduce wind erosion of recently disturbed areas, appropriate revegetation measures, application of water, or covering of spoil piles may occur. In addition, any open-bodied truck transporting dirt will be covered when the vehicle is in motion. The size of the project site, distance to nearby structures and roadways, combined with vegetated buffers along the property boundaries and fencerows will aid in managing off-site dust impacts. Internal roads will be compacted gravel, which may result in an increase in airborne dust particles during dry conditioned and internal road traffic is heavy. During construction activities water may be applied to internal road system to reduce dust generation. Water used for dust control is authorized under the Kentucky Pollutant Discharge Elimination System (KPDES) as a non-stormwater discharge activity, which will be required for the proposed project.

5. Impacts to Rail

There are no railroads, spurs, or other rail facilities in the project area. The proposed solar facility project will have no effect on rail.

Signature of Professionals



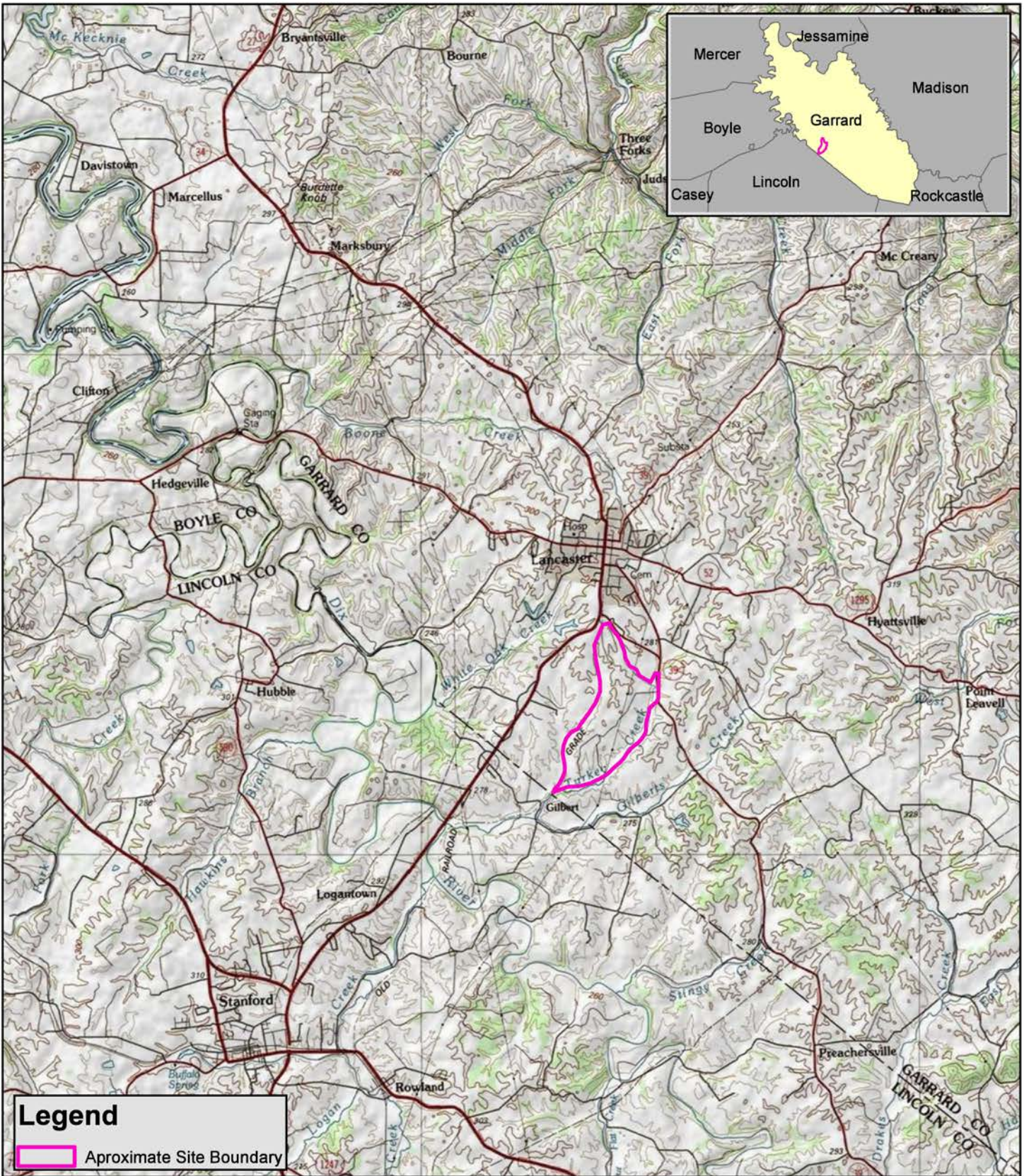
Michael Savage
Environmental Services
Project Manager



Kevin Hendrix, PE, LEED AP
Civil Engineering
Discipline Director



Figures 1-4



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

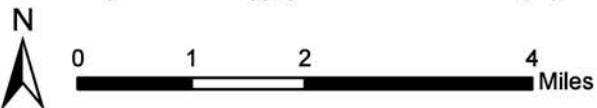
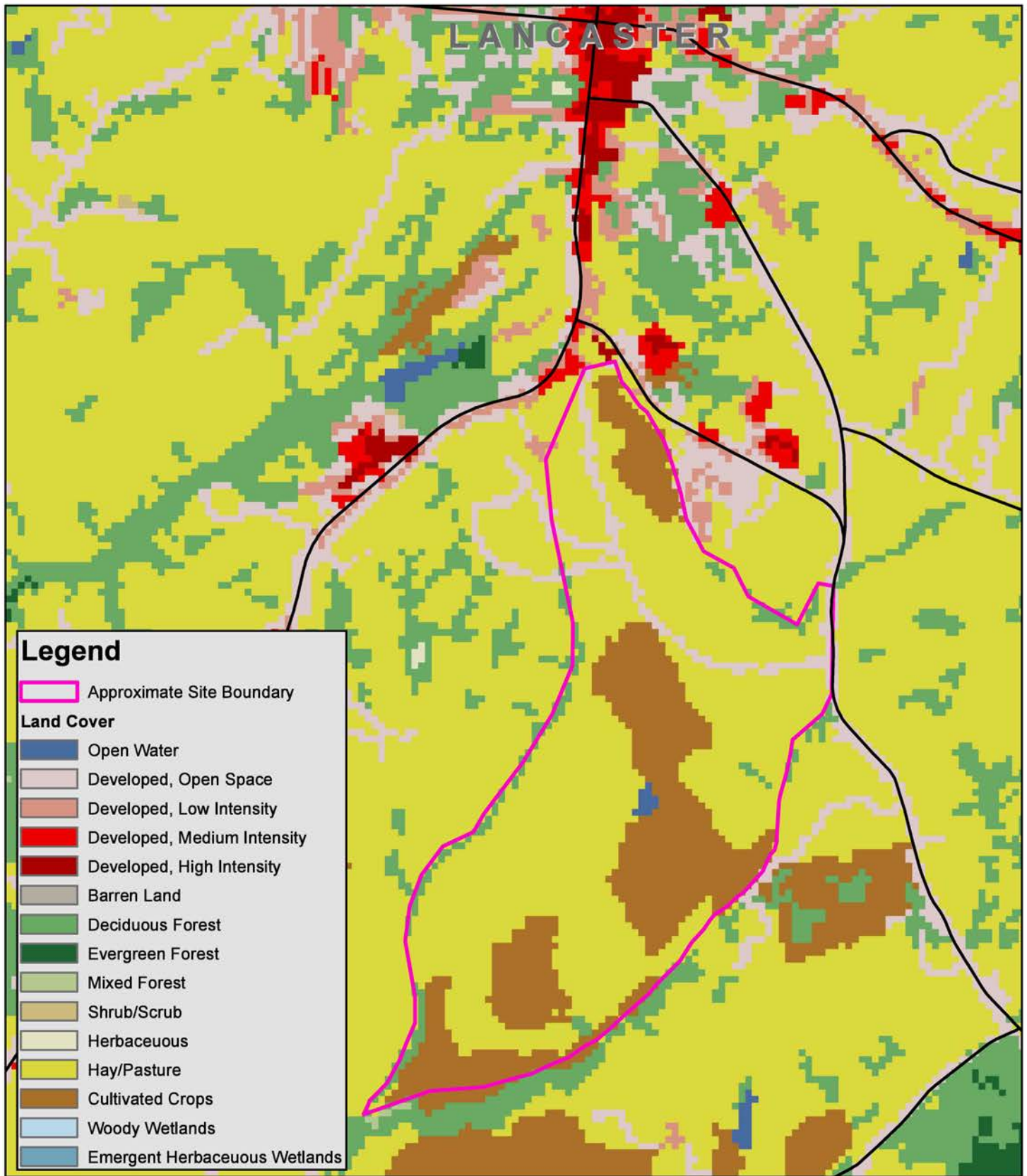


Figure 1
Project Location Map



Turkey Creek Solar Facility
Lancaster, Kentucky

February 2020



Service Layer Credits: National Land Cover Dataset for Garrard County, Kentucky



Figure 2
Land Use Map

Turkey Creek Solar Facility
Lancaster, Kentucky

February 2020





Legend

 Approximate Site Boundary

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,

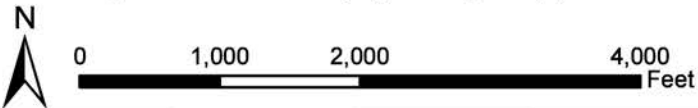
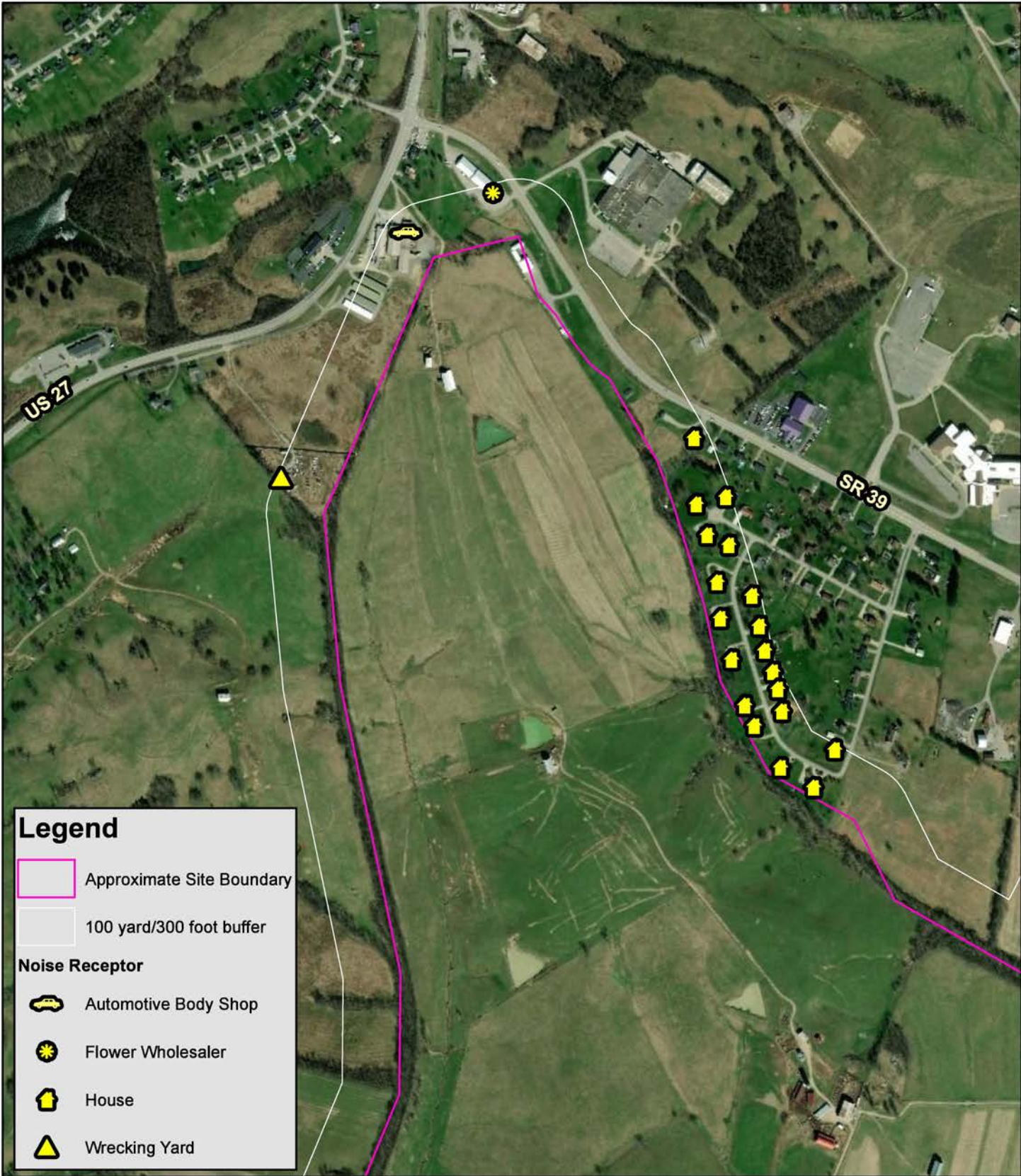


Figure 3
Aerial Imagery Map



Turkey Creek Solar Facility
Lancaster, Kentucky

February 2020



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,

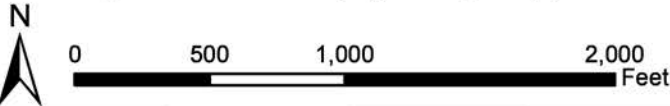
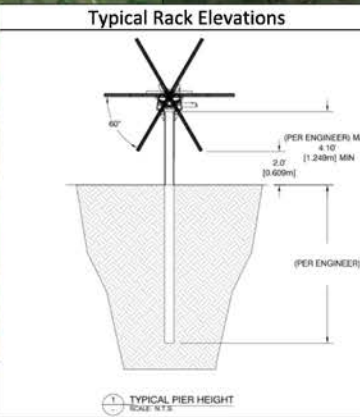


Figure 4
Noise Receptor Map

Appendix A – Site Plans

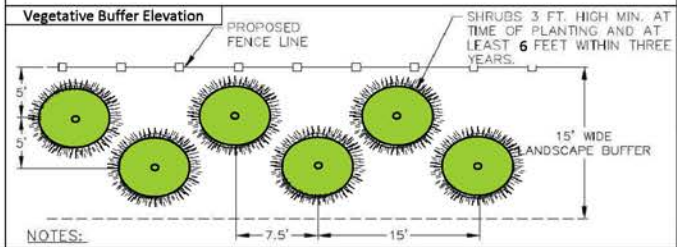


Drawing Legend	
	Potential Project Footprint
	Wetland Features
	Utility Easement
	Water Features
	Array Area
	Parcel Boundary
	Fence Boundary
	Access Roads
	Vegetative Buffer



Standard Notes

- (1) The Purpose of this plan is for a Power Generation Permit for review and approval by the Kentucky State Siting Board to construct a solar energy system. All information shown is for planning purposes only.
- (2) The property lines, existing improvements, and topographic data shown hereon are not based on a field survey and have been completed from ArcGIS & Google Earth Imagry. No field evidence of property markers were located with this Exhibit.
- (3) Wetlands and Streams are shown representative of a delineation received by Carolina Solar Energy.
- (4) Project area will be cleared and grubbed as necessary, retaining pre-development drainage patterns as much as possible. Minor grading will occur around inverter areas to divert surface drainage. Areas subject to rutting during construction will be temporarily stabilized with gravel that will remain after construction. Soil conditions and equipment loads will determine final design.
- (5) Proposed construction and temporary laydown yard/construction staging area to be used during site construction. A portion of this area will be covered with gravel to allow delivery of construction materials. Prior to construction, this area will be compacted by a smooth drum or sheepfoot roller to reduce/prevent rutting. Following construction gravel laydown yard will be removed.
- (6) Access aisles shown on this plan indicate construction and maintenance access points for ingress/egress. Prior to construction, these aisles are compacted by a smooth drum or sheepfoot roller to reduce/prevent rutting. Gravel may be placed in high traffic or poorly draining areas during construction activities to improve access. Soil access aisle will be scarified, aerated, and re-seeded after construction. Access aisles to inverters may require gravel to support delivery equipment loads. Soil conditions and final equipment selection will determine if gravel access aisles will be required to inverter locations
- (7) All Right-Of-Ways are public unless noted otherwise.
- (8) Utility lines and services shown hereon are approximate per aerial photography or as reported by various responsible parties. Location of underground utilities are not shown. Call appropriate authorities before digging.
- (9) No lighting is proposed for the array area. The Interconnection Substation will have some lighting.
- (10) 6' tall chain link fence with three strands of barbed wire or similar to meet National Electric Code requirements. The proposed access gate will be locked with a standard keyed or combination lock. Emergency personnel will be provided a key or combination for access.



Carolina Solar Energy
400 W. Main St.
Durham, NC 27701
Suite 503

Turkey Creek Farm
50 MWAC

ISSUE
11.25.19
12.04.19
12.08.19

PROJECT
Turkey Creek

DRAWN BY
CI

DESCRIPTION
Array Layout

**Phase I Environmental Site Assessment
of the
Proposed Turkey Creek Solar Energy Project
Garrard County, Kentucky 40941**

for

Turkey Creek Solar, LLC

Project No. 11809.00



March 2020

Phase I Environmental Site Assessment
of the
Proposed Turkey Creek Solar Energy Project
Garrard County, Kentucky 40941
for
Turkey Creek Solar, LLC

Prepared By:

Ms. Lee Carolan

Palmer Engineering

400 Shoppers Drive

Winchester, KY 40392



March 2020

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Attachment 1 EDR Radius Map™ Report with GeoCheck®

Attachment 2 Photo Log

Attachment 3 Freedom of Information Act Request

Attachment 4 Topographic Maps

1.0 EXECUTIVE SUMMARY

At the request of Mr. Marty Marchaterre, Copperhead Environmental Consulting, Inc., representing Turkey Creek Solar, LLC (client), Ms. Lee Carolan, a Certified Environmental Specialist (CES) with Palmer Engineering (Palmer), has completed a Phase I Environmental Site Assessment (ESA) Process for Forestland or Rural Property on 787 acres of the Curry Farms FLP LTD (Parcels 28-105, 28-103 and 28-095) located on Crab Orchard Road in Garrard County, Kentucky. Two properties adjoining the subject property will sell easements to the owner. These properties are identified as the Industrial Development Authority (PIN: 28-099) and the Fire Department (PIN: 28-097 and PIN: 28-100). The proposed plan for this site will include the Turkey Creek Solar Energy project. Ms. Carolan and Mr. Jon Totty, GISP (subcontractor), conducted the site visit on October 10, 2019.

During the site visit, Mr. Eric Stinson, Farm Manager, provided entry into the farm and information regarding the farm. There are no known environmental conditions on the subject property. Two 550-gallon underground fuel storage tanks that contained diesel are still in place. An underground heating oil tank is still located near a residence that had been demolished. There is also a septic tank next to a house that is occupied on the farm. No staining or odor was observed in these areas. Mr. Stinson stated he knew of no petroleum spills, dumping of hazardous substances, or other environmental concerns regarding the property. He said typical farming practices such as the use of fertilizers and pesticides have occurred on the acreage. The farm is strictly for raising beef cattle.

The subject property was purchased in the late 1990s into the 2000s, with three tracts being part of the purchase. Mr. William Cormeny (deceased) was the primary owner of the majority of the acreage, which he purchased in 1940. Mr. Stinson stated that he did not know if Mr. Cormeny had placed the USTs on the property after he purchased it or if there were there prior to purchase. Parts of the other parcels purchased by the Curry family in the late 1990s had various owners. The property has been farmland with various agricultural practices.

The ASTM E 2247-16 Phase I ESA applies to a property 120 acres or greater of forestland or rural property or with a developed use of only managed forestland and/or agriculture with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 (Public Law #96-510), and petroleum products. According to the law, the land not need be contiguous; however, the non-contiguous land areas should substantially have the same general land use and be part of the same

transaction and it may or may not contain some areas of non-forestland or non-rural property. This practice is intended to permit a user to satisfy one of the requirements to qualify for innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereafter, the “landowner liability protections,” or “LLPs”); that is, the practice that constitutes “all appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary Practice as defined at U.S.C. 9601 (35)(B).” The main objective of the ESA was to identify the presence or likely presence, use, or release of hazardous substances or petroleum products as defined in ASTM Practice E 2247-16 as a recognized environmental condition (REC) on the property.

1.1 Site Reconnaissance

Ms. Lee E. Carolan, CES, and Mr. Jon Totty, GISP, performed site reconnaissance of the subject property on October 10, 2019. Photographs of the sites are located in Attachment 1. During driving and drone reconnaissance of the site, Palmer observed several residential structures, a canine boarding facility, and several barns within the area. The farm is a commercial business with corn and soybeans as the featured crops. Farming practices were observed as well as the equipment used in these practices.

The subject property has electrical service provided by Electric Intercounty Energy of Danville and water provided by Garrard County Water Association City of Lancaster. There is no water on site at the house on the property.

The topography of the subject property is relatively rolling with areas of storm water flow.

A driving reconnaissance of the surrounding area was performed at the time of the site visit to view properties with potential documented environmental impacts. Palmer observed residential and commercial areas as well as county services and a county high school.

1.2 Recommendations

No evidence of an REC was visually observed on the subject property during site reconnaissance. There was no staining or odor observed in relation to the USTs. Based on information collected from the government agencies, records review, personal interviews, and site reconnaissance, no further action on the subject property is recommended unless there is a need to remove the USTs on site or some issue regarding these arises.

2.0 INTRODUCTION

At the request of Mr. Marty Marchaterre, Copperhead Environmental Consulting, Inc., representing Turkey Creek Solar, LLC (client), Ms. Lee Carolan, a Certified Environmental Specialist (CES) with Palmer Engineering (Palmer), has completed a Phase I Environmental Site Assessment (ESA) Process for Forestland or Rural Property on 787 acres of the Curry Farms FLP LTD (Parcels 28-105, 28-103 and 28-095) located on Crab Orchard Road in Garrard County, Kentucky. Two properties adjoining the subject property will sell easements to the owner. These properties are identified as the Industrial Development Authority (PIN: 28-099) and the Fire Department (PIN: 28-097 and PIN: 28-100). The proposed plan for this site will include the Turkey Creek Solar Energy project. Ms. Carolan and Mr. Jon Totty, GISP (subcontractor), conducted the site visit on October 10, 2019.

During the site visit, Mr. Eric Stinson, Farm Manager, provided entry into the farm and information regarding the farm. There are no known environmental conditions on the subject property. Two 550-gallon underground fuel storage tanks that contained diesel are still in place. An underground heating oil tank is still located near a residence that had been demolished. There is also a septic tank next to a house that is occupied on the farm. No staining or odor was observed in these areas. Mr. Stinson stated he knew of no petroleum spills, dumping of hazardous substances, or other environmental concerns regarding the property. He said typical farming practices such as the use of fertilizers and pesticides have occurred on the acreage. The farm is strictly for raising beef cattle.

The property of the proposed project was purchased in the late 1990s into the 2000s with three tracts being part of the purchase. Mr. William Cormeny (deceased) was the primary owner of the majority of the acreage which was purchased in 1940. Mr. Stinson stated that he did not know if Mr. Cormeny had placed the USTs on the property after he purchased it or if there were there prior to purchase. Parts of the other parcels purchased by the Curry Family in the late 1990's had various owners. The property has been farmland with various agricultural practices.

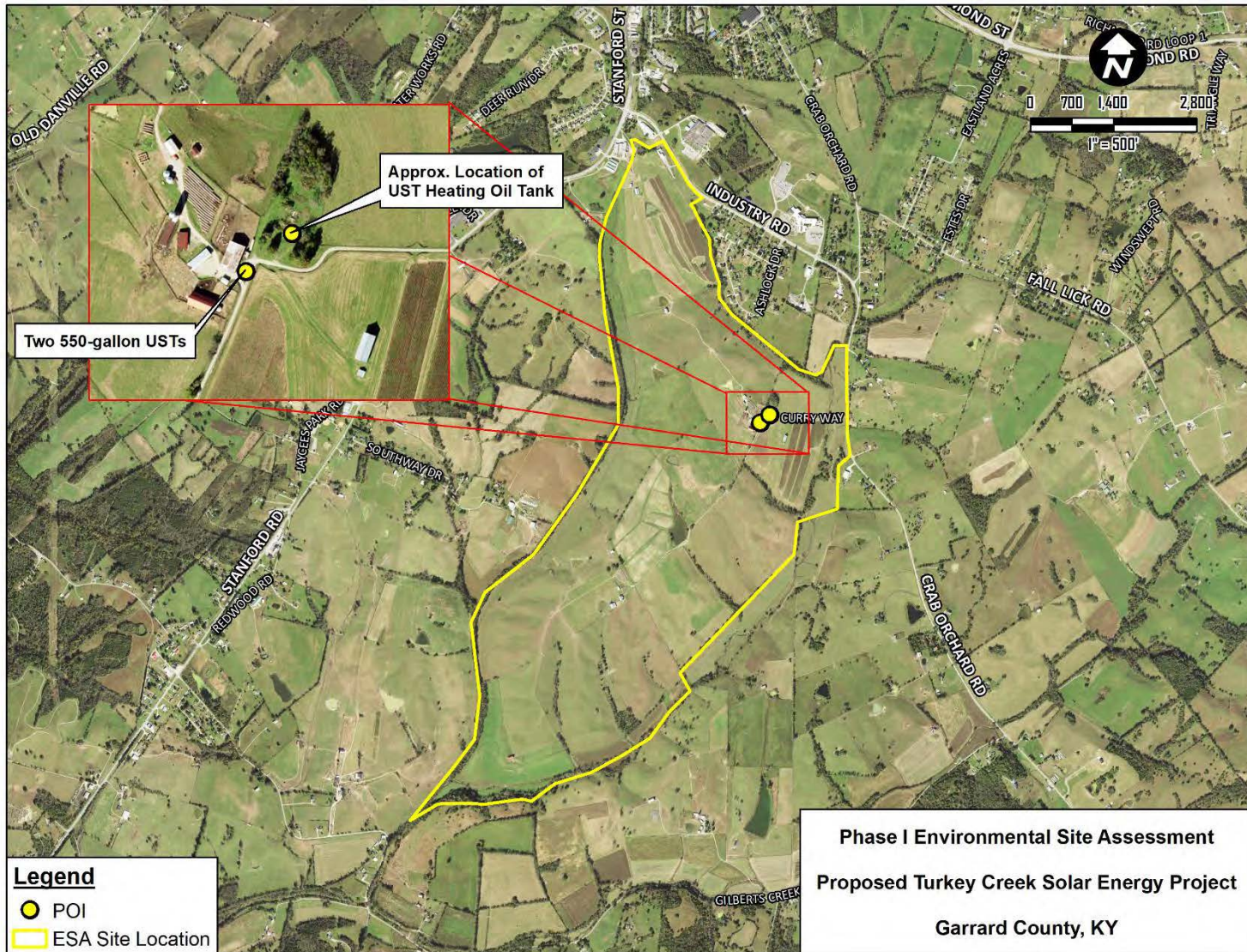


Figure 1: Phase I ESA Site Map

The ASTM E 2247-16 Phase I ESA applies to a property 120 acres or greater of forestland or rural property or with a developed use of only managed forestland and/or agriculture with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 (Public Law #96-510), and petroleum products. According to the law, the land not need be contiguous; however, the non-contiguous land areas should substantially have the same general land use and be part of the same transaction and it may or may not contain some areas of non-forestland or non-rural property. This practice is intended to permit a user to satisfy one of the requirements to qualify for innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereafter, the “landowner liability protections,” or “LLPs”); that is, the practice that constitutes “all appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary Practice as defined at U.S.C. 9601 (35)(B).” The main objective of the ESA was to identify the presence or likely presence, use, or release of hazardous substances or petroleum products as defined in ASTM Practice E 2247-16 as a recognized environmental condition (REC) on the property.

2.1 Purpose

The purpose of the Phase I ESA is to evaluate a site’s history and current site conditions in order to help identify past or current environmental conditions indicative of releases and threatened releases of hazardous substances, petroleum products, or other contaminants (referred to as recognized environmental conditions or RECs) and other environmental concerns addressed in these guidelines (Other Environmental Concerns). The Phase I ESA will evaluate the potential liabilities associated with ownership of the site, including the potential impact of the site on surrounding properties, as well as the potential impact of adjoining properties on this site. The purpose of the Proposed Action is to purchase the property.

The general scope of work is divided into five tasks that generally follow ASTM E 2247-16 and closely related ASTM E 1527:

1. review of user provided information;
2. records review;
3. site and area reconnaissance;
4. interviews with owners and state and local government officials; and
5. evaluation of findings and report preparation.

2.2 Scope

This ESA was conducted in accordance with the ASTM Standard Practice E 2247-16. Palmer spoke with Mr. Eric Stinson, Farm Manager of Curry Farms FLP, LLC, about the subject property and uses of the existing 783 acres of the farmland. Palmer also reviewed documents relevant to the subject property, such as deeds and lien search in the Garrard County Deeds office, historic topographical quadrangles, and historic and current aerial photography. Palmer reviewed the Environmental Protection Agency's website regarding the surrounding area (<https://echo.epa.gov>). The scope of this assessment included an evaluation of items listed above. An two documents from the Kentucky Energy and Environment Cabinet (EEC) via an electronically mailed to Kentucky Open Records Act (KORA) section.

2.3 Client Information and User Responsibilities

Mr. Marty Marchaterre of Copperhead Environmental Consulting, Inc. retained Palmer to conduct the Phase I ESA on the subject property for Turkey Creek Solar, LLC (client). The Phase I ESA is to be conducted as part of due diligence to determine if RECs, historical recognized environmental conditions (HRECs), or *de minimis* conditions are present on the subject property. Palmer reviewed historic materials and information to assist in completing this Phase I ESA.

3.0 RECORDS REVIEW

3.1 Current Land Use

The subject property is currently a commercial farm. Records requested from state and local governments were not readily available other than those that indicated the property is a working farm. Ms. Lee Carolan and Mr. Jon Totty conducted driving and drone reconnaissance of the subject property, viewed adjacent properties from the subject property boundaries, and conducted a one-mile-radius driving reconnaissance of the subject property. Photographs of the subject property taken during the site reconnaissance are located in Attachment 1. The subject property is surrounded by rural, residential, and commercial uses. Information used to determine potential impacts on the subject property is found in Sections 2.0 and 4.0 of this report.

Mr. Stinson knew of no petroleum spills, dumping of hazardous materials, or any other environmental issues on the subject property.

3.2 Historical Land Use

According to historic documentation and interviews with Mr. Stinson, the subject property was agricultural with past use as a livestock farm. The surrounding area was also agricultural with very limited residential usage.

3.2.1 Aerial Imagery

The earliest aerial imagery available for this Phase I ESA was dated 1950. From that time until present, the subject property appears to have experienced little development with the exception of some new structures, such as metal buildings, barns, and silos. Aerial imagery was observed from NETROnline/Historic Aerials from 1950, 1960, 1983, 1997, 1998, 2003, 2004, 2006, 2008, 2010, 2012, 2013, 2016, and 2017.

3.2.2 Topographic Maps

Topographic maps were reviewed on the US Geological Service's government website. The collection of maps for Lancaster, Garrard County, that were relevant to this project area are dated 1918, 1952, 1961, 2010, 2016, and 2019. No obvious land changes were noticeable.

3.2.3 Federal Agency Database Records

An EDR Radius Map™ Report with GeoCheck® dated February 20, 2020, was reviewed for potential sites of environmental interest. The report had two sites listed; one is an Underground Storage Tank (UST) site called Industrial General Corporation, which is incorrectly located on the

map as the target property. Another site is listed as Allison Abrasives, Inc. State Hazardous Waste Site (SHWS), located at 163 Industry Road. This site is located east/northeast of the project site and neither sites are expected to affect the project site. Ten unmappable/orphan sites appeared in the EDR Report but are not within the project radius. Due to the rural nature of the property, no City Directory records were obtainable.

A Freedom of Information Act request was sent to the Energy and Environmental Cabinet (EEC) Kentucky Open Records Act (KORA) department. No environmental concerns were discovered from the information request.

Palmer consulted the EPA's website (<https://echo.epa.gov>) for records pertaining to the subject property. No records were available.

3.2.4 State and Local Agency Database Records

The Kentucky Energy and Environment Cabinet was consulted regarding the subject property. No records regarding the project site were available. However, the two aforementioned sites in Section 3.1 were investigated. Deeds were reviewed at the Garrard County Clerk's office; no liens were discovered on the property.

3.3 Review of Site Physical Data

3.3.1 Floodplain Information

According to information obtained from the Federal Emergency Management Agency (FEMA), the subject property is outside a 500-year floodplain.

3.3.2 Surface Water and Site Drainage

The subject property is located within an area of minimal flood hazard (Zone X) within FIRM section 21079C0155C, according to the FEMA floodplain online mapping report. The site is relatively flat with some rolling terrain. Two major creeks flow through the property. There are approximately 14 wetlands on site according to the US Fish and Wildlife Service National Wetlands Inventory Map (Wetland Mapper).

3.3.3 On-site and Nearby Well Locations

The University of Kentucky Geologic Map Information Service website showed no water wells, springs, or other water sources on the subject property.

3.3.4 Geology and Hydrogeology

Topographical information was obtained from a review of the 7.5-minute series topographic maps of Garrard County dated 1952, 1961, 2010, and 2016, which includes the subject property and surrounding areas. Site elevation is approximately 985 feet (ft) above mean sea level (AMSL).

Groundwater flow is best determined by a qualified hydrologist using site-specific geology and soils data.

3.3.5 Soils

According to information provided by the University of Kentucky Geological Map Information Service website, which obtained the USDA Natural Resources Conservation Service (NRCS) soil survey, the soils in the area were related to the Mississippian Era and formation. The project is within the Dix River Watershed. The information obtained is based on NRCS SSURGO data. The primary soil component is Beasley silty clay loam and Lowell-Faywood silt loams. Beasley soils are deep, well drained, sloping soil on slightly convex ridgetops and side slopes in the uplands, mainly in the Outer Bluegrass region. It is moderately slow to slow in permeability, which means a high runoff. It is a difficult soil to till.

The other prominent soils in the area are the Lowell-Faywood silt loams. These soils are deep to moderately deep, well-drained, moderately steep soils on convex side slopes in the uplands, mainly in the Hills of the Bluegrass and Outer Bluegrass regions. Both of these soil types have moderately slow permeability with high runoff.

4.0 AREA RECONNAISSANCE

4.1 Automobile Reconnaissance of Surrounding Area

On October 10, 2019, an automobile reconnaissance was conducted of the area within the project corridor. The adjoining and surrounding properties were viewed for general land use and conditions. The current and historical uses of adjoining properties described below are based on visual observations during the site reconnaissance and information obtained from historical research and interviews.

4.1.1 Current Uses of Adjoining Properties

Aerial photographs, topographic maps, and property information gathered during this investigation was used to determine the usages of these properties. The area is surrounded by farming, with some residential areas and small commercial businesses.

None of the properties poses an REC or a *de minimis* condition to the subject property. Several adjacent properties are located at a lower elevation than the subject property.

4.1.2 Historical Uses of Adjoining Properties

The adjoining properties have changed only slightly since the 1990s. Farming seems to be the primary economy for this area, with some small businesses.

4.2 Aerial Drone Reconnaissance

Ms. Lee E. Carolan, CES, and Mr. Jon Totty, GISP, performed site reconnaissance of the subject property on October 10, 2019. Mr. Totty, a licensed FAA UAS pilot, was subcontracted by Palmer to provide aerial reconnaissance of the 650-acre property. Mr. Totty flew the area of significance with a DJI Phantom 4 Pro drone under 400 feet aboveground level. Mr. Totty took photographs and flew over potential areas of interest. No environmental impact areas were observed. Photographs of the site visit are located in Attachment 1.

4.2.1 On-site Structures

The property currently houses approximately 26 structures, including residential homes, barns, and various feed bunks for the cattle.

4.2.2 Petroleum-Containing Equipment

Two underground storage tanks containing 550 gallons each of diesel were observed, as well as an existing underground heating oil tank at the location of a former residence. Vehicles such as

trucks and farming equipment were observed. No aboveground storage tanks were located on the subject property.

4.2.3 Polychlorinated Biphenyls (PCBs)

Approximately ten transformers were located on the property. No visual staining was observed.

4.2.4 Universal Waste

Some universal waste was observed at the time of the site visit near the site of the old homestead.

4.2.5 Debris

Small debris piles were observed during the site visit. These areas do not represent an environmental concern.

4.2.6 Chlorofluorocarbons, Refrigerants, and Coolants

At the time of the site reconnaissance, Ms. Carolan did not observe potential refrigerants or coolants located on the properties.

4.2.7 Asbestos-Containing Materials (ACMs)

No ACMs were observed during site reconnaissance. There is potential for ACM materials in structures due to the ages of the buildings.

5.0 DATA GAPS

In October 2019, Palmer interviewed Mr. Eric Stinson, Farm Manager of Curry Farms, FLP, LTD, regarding the two existing 550-gallon diesel USTs and the oil heating UST. No information is available regarding the age or safety materials of these USTs. The thought is that these were likely were put in place when Mr. Cormeny purchased the property or when previous owners had the properties.

6.0 INTERVIEWS

In October 2019, Palmer interviewed Mr. Eric Stinson, Farm Manager of Curry Farms, FLP, LTD, regarding the purpose of the Phase I ESA and to discuss potential areas of environmental concerns. Mr. Stinson had no information regarding environmental issues. He did inform Palmer of the underground storage tanks on the property.

Palmer also contacted state and federal agencies about the potential for environmental issues regarding the subject property. No information was located regarding the property.

7.0 FINDINGS, CONCLUSIONS, AND ENVIRONMENTAL PROFESSIONAL OPINION

At the request Mr. Marty Marchaterre, Copperhead Environmental Consulting, Inc., representing Turkey Creek Solar, LLC (client), Palmer performed an ASTM Standard E 2247-16 Phase I Environmental Site Assessment (ESA) on the subject property located in Garrard County, Kentucky.

No evidence of an REC was visually observed on the subject property during site reconnaissance. There was no staining or odor observed in relation to the USTs. Based on information collected from the government agencies, records review, personal interviews, and site reconnaissance, no further action on the subject property is recommended unless there is a need to remove the USTs on site or some issue regarding these arises.

8.0 LIMITATIONS AND EXCEPTIONS

This Phase I ESA conforms to the ASTM Standard Practice for Environmental Site Assessments (ASTM E 2247-16). Even so, no Phase I ESA can completely eliminate uncertainty about the subject property's potential for environmental problems. The findings of this report are based upon conditions that existed on the date of the site visit and should not be relied upon to precisely represent conditions at any other time. The Phase I ESA is presumed to be valid for 180 days from the date of issue.

No statement of certainty can be made regarding subsurface conditions from any on-site or off-site sources of contamination. Palmer did not sample soil, surface water, groundwater, asbestos containing materials, or radon as part of the Phase I ESA. Assessment of this property is based on visual observations and sources as referenced throughout the report.

Palmer relied upon information provided by others in assessing the site; the information has not been independently verified. This report is a prudent, reasonable evaluation of the subject property's observed environmental condition. Palmer assumes no responsibility for conditions or information not practically reviewable, or information that was not accurately disseminated by any party.

This report should not be construed as verifying the present subject property owner or operator's compliance with federal, state, and local regulations or as a recommendation to purchase, sell, or develop the subject property.

While significant problems may not have been found, unavailable or undisclosed information may indicate significant environmental compliance liabilities, including the following:

- Being a potentially responsible party to a CERCLA cleanup (holding facility owners or operators liable).
- Being in jeopardy of losing a permit or license that allows the facility to operate.
- Allocating significant sums of money to bring the facility into compliance with environmental regulations.

The author(s) hereby certify that this Phase I ESA has been conducted in accordance with ASTM Standard Practice E 2247-16. This Phase I ESA has been prepared for the sole use of Copperhead Environmental Consulting, Inc. and Turkey Creek Solar, LLC (client). This Phase I ESA should not be relied upon by other parties without the express written consent of Palmer Engineering and the above-mentioned parties.

9.0 REFERENCES

Environmental Data Resources, Inc. The EDR Radius Map with GeoCheck®, Turkey Creek Solar Survey Area, Lancaster, KY 40444 Inquiry No. 5978018.5s (February 20, 2020). 6 Armstrong Road, 4th Floor; Shelton, Connecticut 06484, 1.800.352.0050.

Mr. Eric Stinson, Farm Manager, Curry Farms, FLP, LTD

Open Records Request, contact with Mr. David (Mike) Taylor Energy and Environment Cabinet.
EEC.KORA@ky.gov

Kentucky Geological Society. www.uky.edu/KGS

Federal Emergency Management Agency. <https://www.fema.gov/flood-mapping-product>

Environmental Protection Agency. <https://echo.epa.gov>

NETROnline/Historic Aerials (1950, 1960, 1983, 1997, 1998, 2003, 2004, 2006, 2008, 2010, 2012, 2013, 2016, and 2017).

US Geological Services Center Website (1952, 1961, 2010, 2016, and 2019)
<https://ngmdb.usgs.gov/topoview/>

Garrard County Courthouse Clerk Office/Deeds, 15 Public Square Ste 5, Lancaster, KY 40444; on October 16, 2019.

Attachment 1

EDR Radius Map™ Report with GeoCheck®

Turkey Creek Solar Survey Area.

Turkey Creek Solar Survey Area.

Lancaster, KY 40444

Inquiry Number: 5978018.5s

February 20, 2020

EDR Area / Corridor Report



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

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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

TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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.

STANDARD ENVIRONMENTAL RECORDS

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

A review of the UST list, as provided by EDR, and dated 11/07/2019 has revealed that there is 1 UST site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
INDUSTRIAL GENERAL C Tank Status: TR8 Facility Id: 65998	KY 39	4 / 5	26

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: State spills

A review of the SPILLS list, as provided by EDR, and dated 11/06/2019 has revealed that there are 4 SPILLS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported		A1 / 5	24

EXECUTIVE SUMMARY

Facility Status: Env. Closed Inc ID: 2265045		
Not reported Facility Status: Env. Closed Inc ID: 173972	A2 / 5	24
Not reported Facility Status: Env. Closed Inc ID: 2299386	A3 / 5	25
Not reported Facility Status: Env. Closed Inc ID: 171796	5 / 8	28

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/30/2020 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<i>SIMMONS CASKET COMPA</i> Site ID: 0401994 EPA Id: KYD050074889	<i>US 27 S INDS BLVD</i>	<i>N 1/4 - 1/2 (0.260 mi.)</i>	<i>12 / 2</i>	<i>46</i>

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

A review of the SHWS list, as provided by EDR, and dated 09/23/2019 has revealed that there are 4 SHWS sites within approximately 1 mile of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
ALLISON ABRASIVES IN Facility Id: 1465	163 INDUSTRY ROAD	ENE 0 - 1/8 (0.020 mi.)	B7 / 2	37

EXECUTIVE SUMMARY

Facility Status: Closed				
GARRARD CO MAINTENAN	782 INDUSTRIAL RD	NNW 1/4 - 1/2 (0.292 mi.)	13 / 5	48
Facility Id: 1470				
Facility Status: Closed				
LANCASTER RESERVOIR	WATER WORKS RD	WNW 1/2 - 1 (0.584 mi.)	14 / 2	51
Facility Id: 7140				
Facility Status: Closed				
JOE ADAMS ESTATE	HIGHWAY 52	NNE 1/2 - 1 (0.888 mi.)	15 / 2	52
Facility Id: 52662				
Facility Status: Closed				

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

A review of the UST list, as provided by EDR, and dated 11/07/2019 has revealed that there are 3 UST sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
ALLISON ABRASIVES IN	163 INDUSTRY ROAD	ENE 0 - 1/8 (0.020 mi.)	B6 / 2	28
Tank Status: TR8				
Facility Id: 1465				
LANCASTER BEER & FOO	870 STANFORD ST	W 0 - 1/8 (0.067 mi.)	C8 / 2	37
Tank Status: TTC				
Tank Status: TAC				
Facility Id: 61734				
Closed In Place Date: 07/06/2016				
HILLARYS COUNTRY STO	KY 893	WNW 0 - 1/8 (0.093 mi.)	10 / 2	41
Tank Status: TRM				
Facility Id: 64772				
Closed In Place Date: 12/03/1993				

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
ALLISON ABRASIVES IN	163 INDUSTRY ROAD	ENE 0 - 1/8 (0.020 mi.)	B6 / 2	28
EPA ID:: KYD985077387				
GARRARD COUNTY DOT D	416 INDUSTRY ROAD	ESE 0 - 1/8 (0.110 mi.)	11 / 2	44

EXECUTIVE SUMMARY

EPA ID:: KYD985097559

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the requested target property.

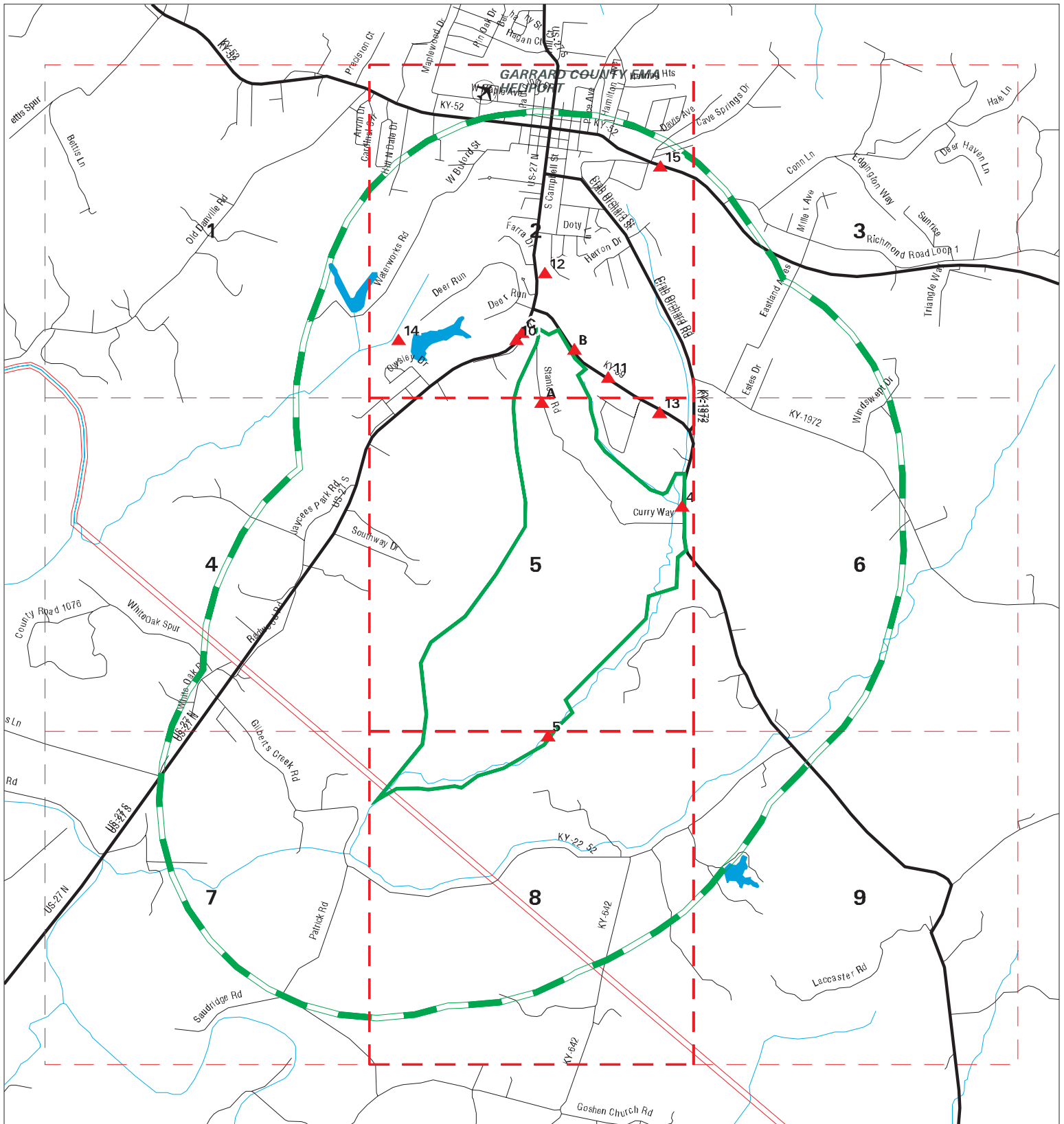
<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
BP EXPRESS	870 STANFORD RD	W 0 - 1/8 (0.067 mi.)	C9 / 2	41

MAPPED SITES SUMMARY

Target Property:
 TURKEY CREEK SOLAR SURVEY AREA.
 LANCASTER, KY 40444

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 5			SPILLS	TP
A2 / 5			SPILLS	TP
A3 / 5			SPILLS	TP
4 / 5	INDUSTRIAL GENERAL C	KY 39	UST	TP
5 / 8			SPILLS	TP
B6 / 2	ALLISON ABRASIVES IN	163 INDUSTRY ROAD	UST, RCRA NonGen / NLR	106 0.020 ENE
B7 / 2	ALLISON ABRASIVES IN	163 INDUSTRY ROAD	SHWS	106 0.020 ENE
C8 / 2	LANCASTER BEER & FOO	870 STANFORD ST	UST	356 0.067 West
C9 / 2	BP EXPRESS	870 STANFORD RD	EDR Hist Auto	356 0.067 West
10 / 2	HILLARYS COUNTRY STO	KY 893	UST	489 0.093 WNW
11 / 2	GARRARD COUNTY DOT D	416 INDUSTRY ROAD	RCRA NonGen / NLR, FINDS, ECHO	583 0.110 ESE
12 / 2	SIMMONS CASKET COMPA	US 27 S INDS BLVD	SEMS-ARCHIVE, RCRA NonGen / NLR	1372 0.260 North
13 / 5	GARRARD CO MAINTENAN	782 INDUSTRIAL RD	SHWS, UST	1542 0.292 NNW
14 / 2	LANCASTER RESERVOIR	WATER WORKS RD	SHWS	3085 0.584 WNW
15 / 2	JOE ADAMS ESTATE	HIGHWAY 52	SHWS	4690 0.888 NNE

Key Map - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20 9:28 AM

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		1	0	1	2	NR	4
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
PSTEAF	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
SB193	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250	1	3	0	NR	NR	NR	4
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	4	NR	NR	NR	NR	NR	4
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
---------	----	--	----	----	----	----	----	---

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		5	7	0	2	2	0	16

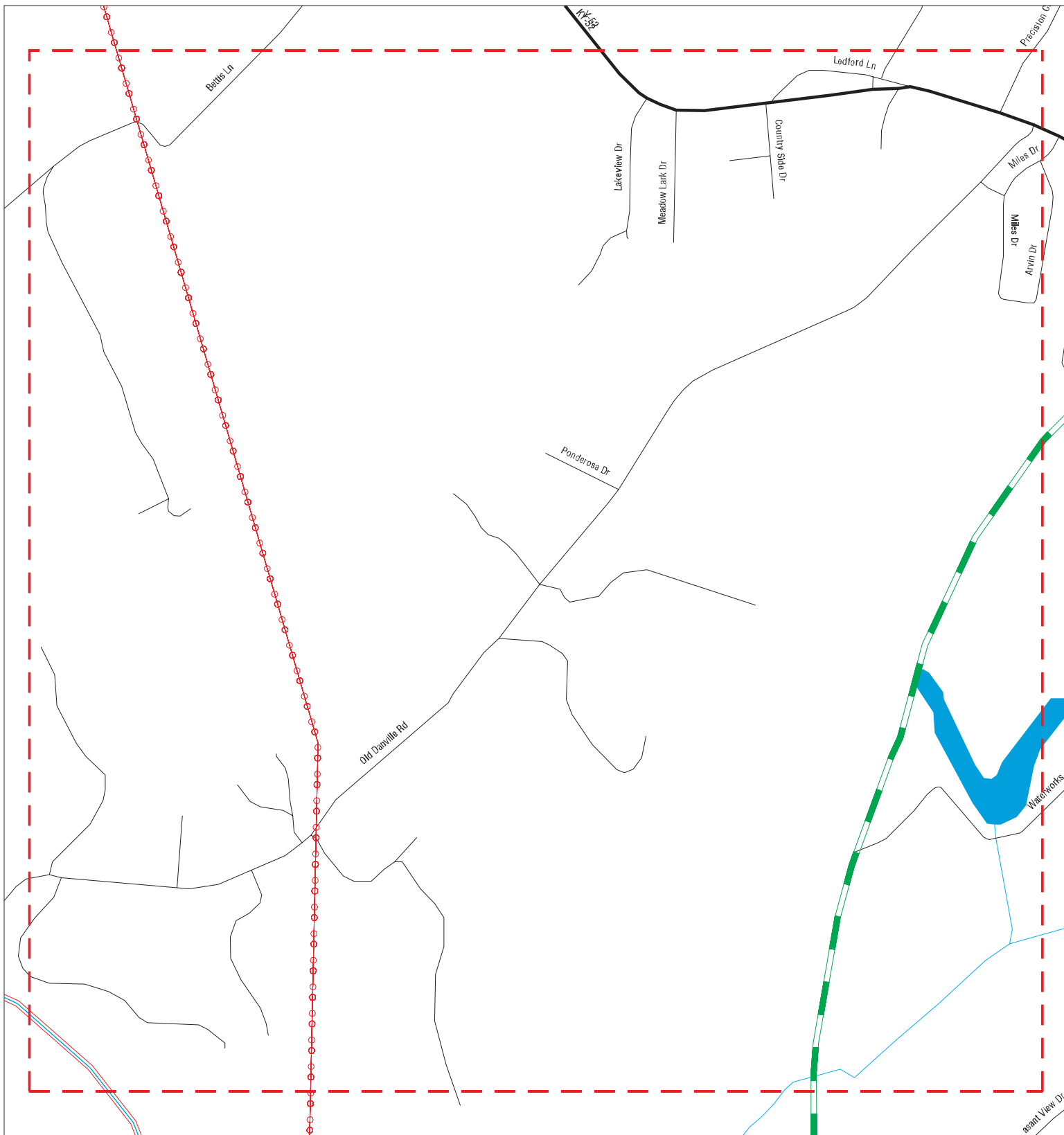
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Focus Map - 2 - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
 ADDRESS: Turkey Creek Solar Survey Area.
 CITY/STATE: Lancaster KY
 ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
 CONTACT: Bill Johnston
 INQUIRY #: 5978018.5s
 DATE: 02/20/20

MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
 TURKEY CREEK SOLAR SURVEY AREA.
 LANCASTER, KY 40444

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
B6 / 2	ALLISON ABRASIVES IN	163 INDUSTRY ROAD	UST, RCRA NonGen / NLR	106 0.020 ENE
B7 / 2	ALLISON ABRASIVES IN	163 INDUSTRY ROAD	SHWS	106 0.020 ENE
C8 / 2	LANCASTER BEER & FOO	870 STANFORD ST	UST	356 0.067 West
C9 / 2	BP EXPRESS	870 STANFORD RD	EDR Hist Auto	356 0.067 West
10 / 2	HILLARYS COUNTRY STO	KY 893	UST	489 0.093 WNW
11 / 2	GARRARD COUNTY DOT D	416 INDUSTRY ROAD	RCRA NonGen / NLR, FINDS, ECHO	583 0.110 ESE
12 / 2	SIMMONS CASKET COMPA	US 27 S INDS BLVD	SEMS-ARCHIVE, RCRA NonGen / NLR	1372 0.260 North
14 / 2	LANCASTER RESERVOIR	WATER WORKS RD	SHWS	3085 0.584 WNW
15 / 2	JOE ADAMS ESTATE	HIGHWAY 52	SHWS	4690 0.888 NNE

Focus Map - 3 - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

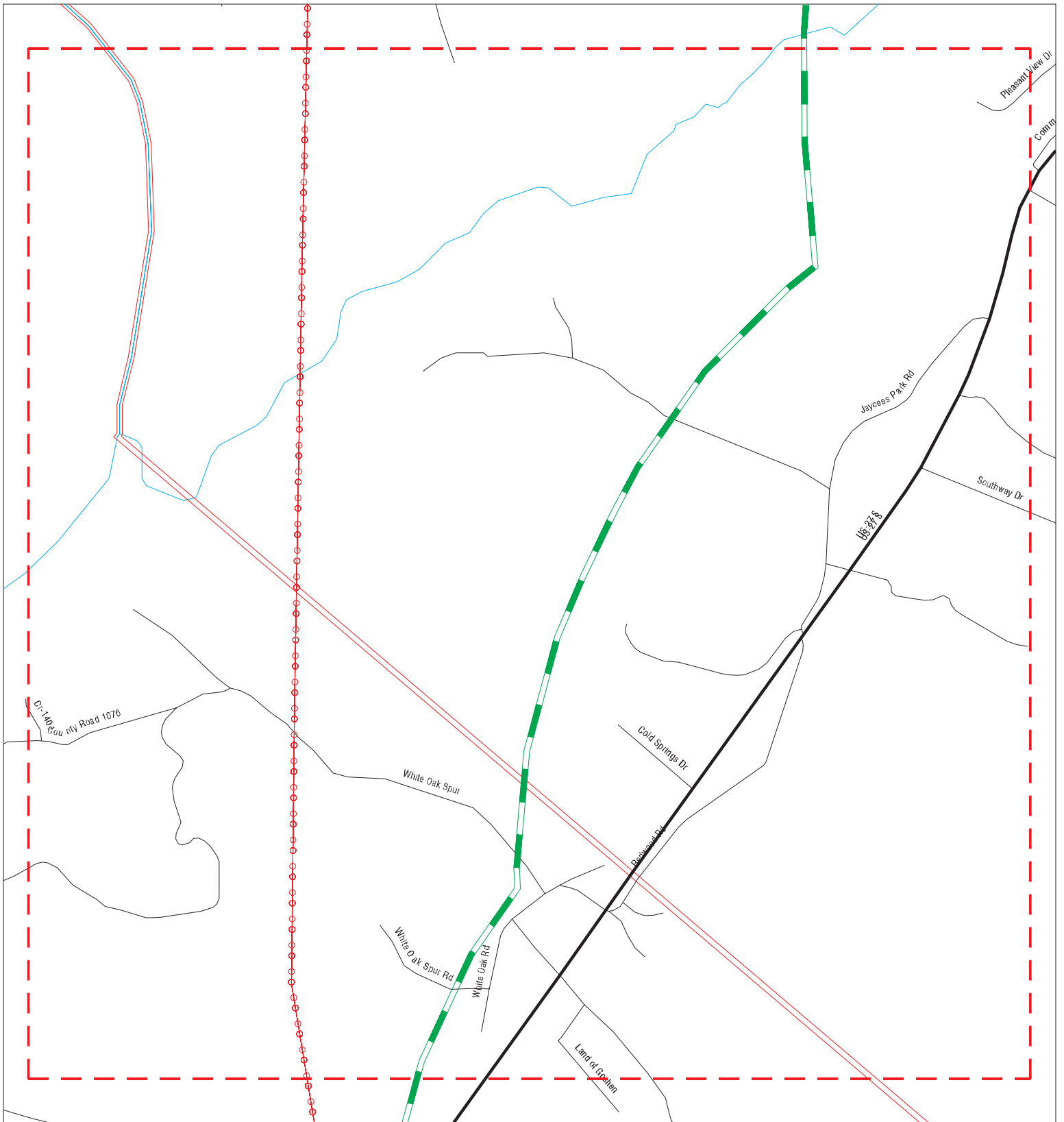
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Focus Map - 4 - 5978018.5s



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

SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Focus Map - 5 - 5978018.5s



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

SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

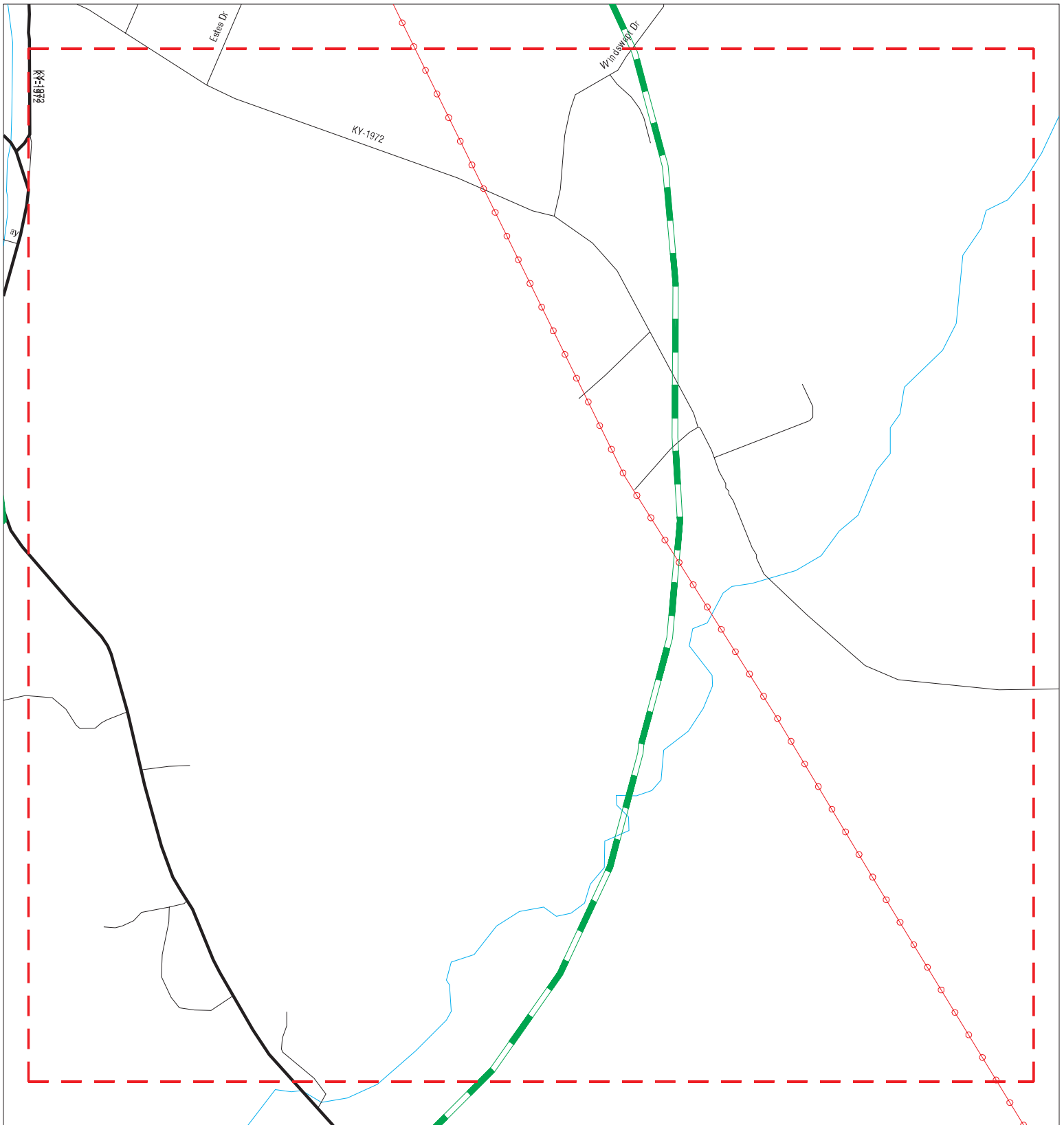
CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
 TURKEY CREEK SOLAR SURVEY AREA.
 LANCASTER, KY 40444

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 5			SPILLS	TP
A2 / 5			SPILLS	TP
A3 / 5			SPILLS	TP
4 / 5	INDUSTRIAL GENERAL C	KY 39	UST	TP
13 / 5	GARRARD CO MAINTENAN	782 INDUSTRIAL RD	SHWS, UST	1542 0.292 NNW

Focus Map - 6 - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

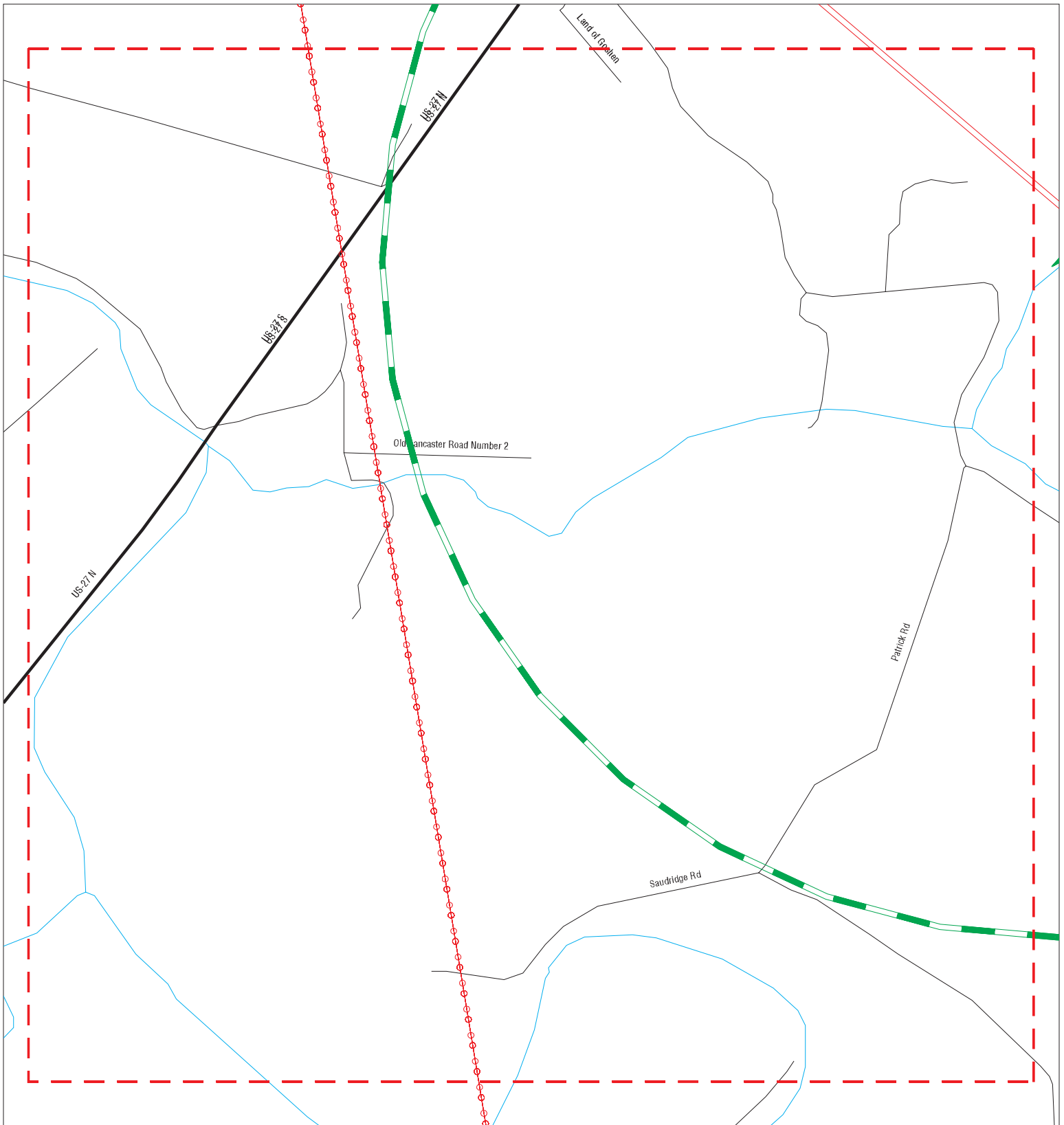
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Focus Map - 7 - 5978018.5s



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

SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

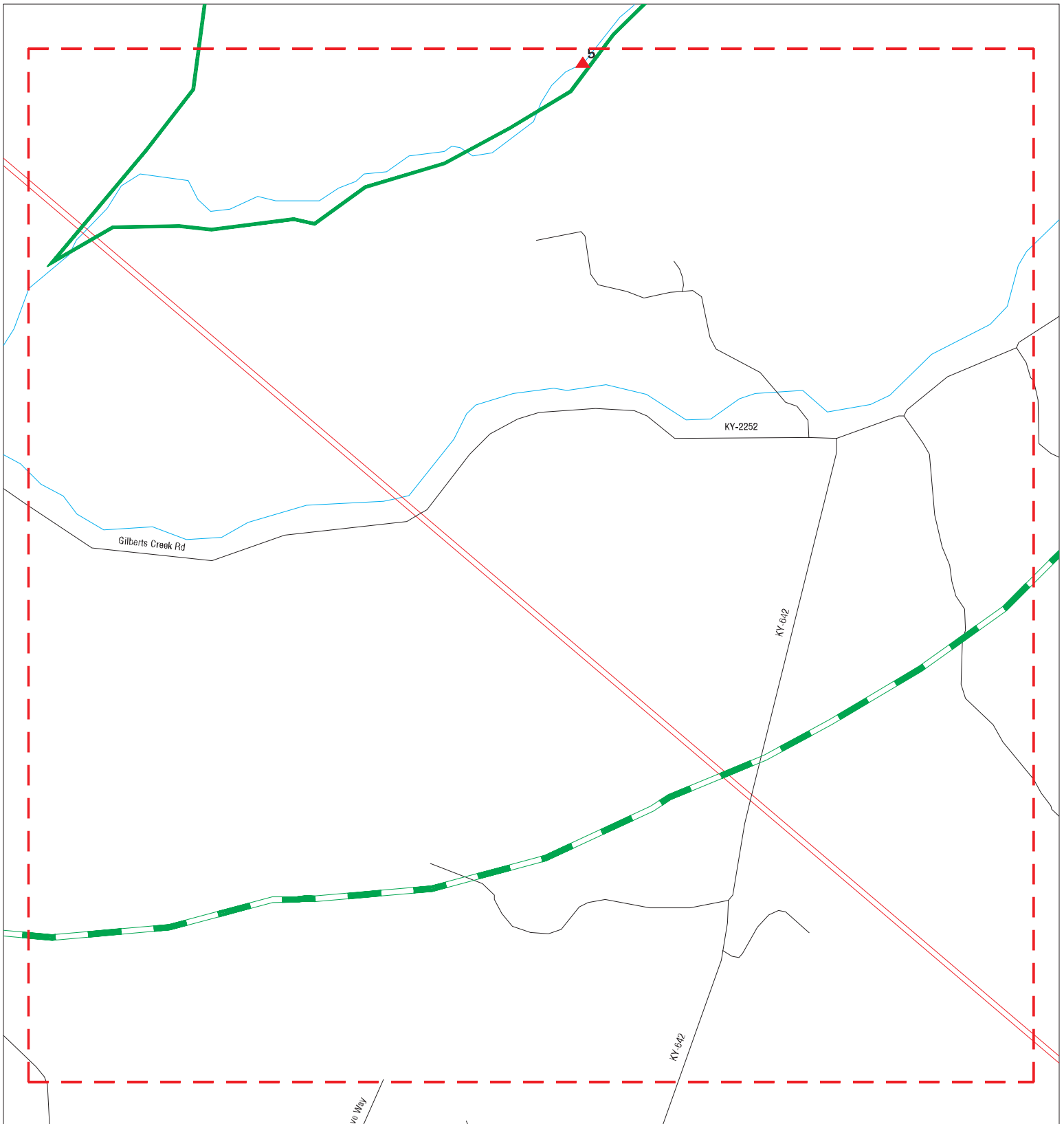
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Focus Map - 8 - 5978018.5s



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



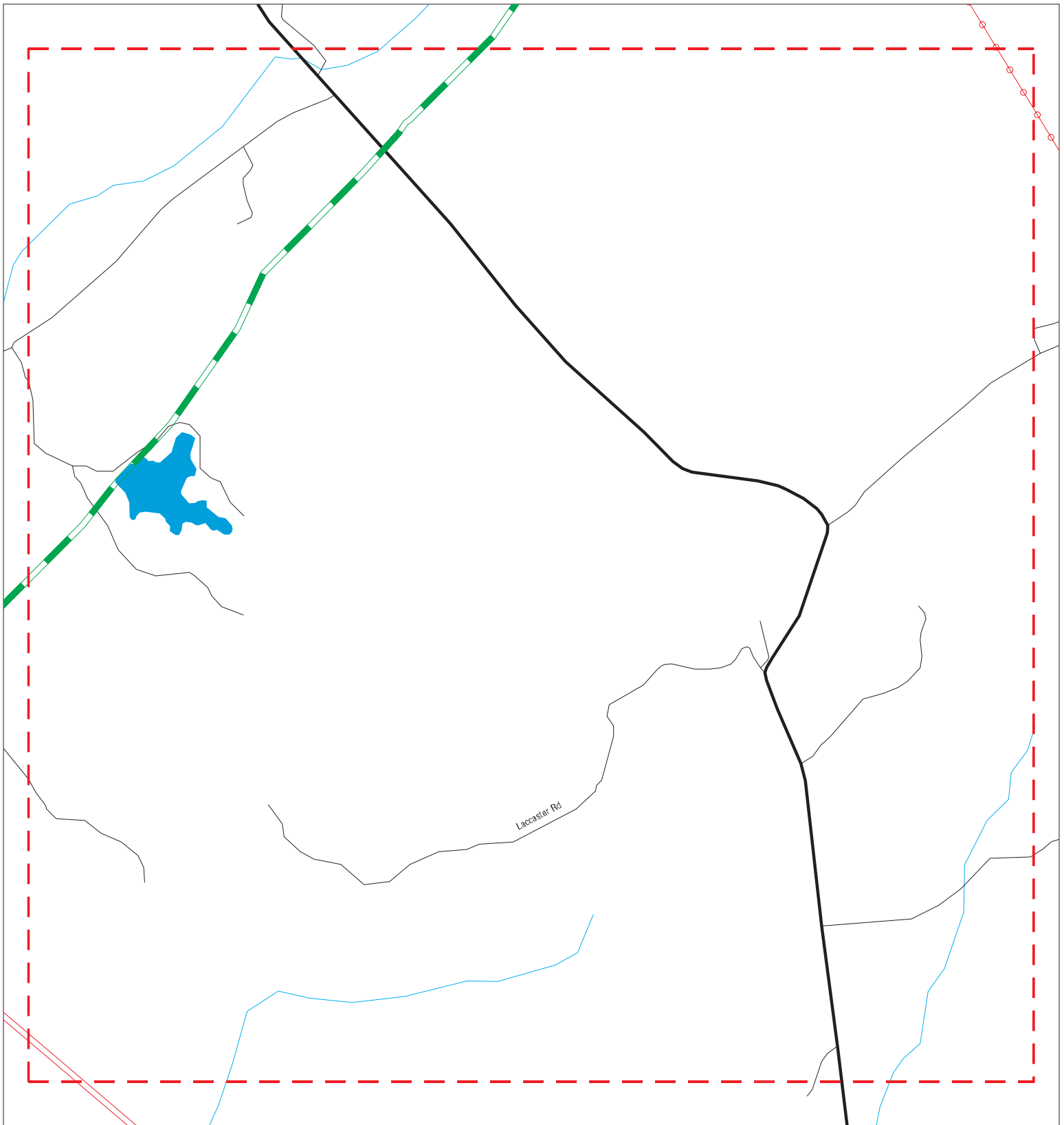
SITE NAME: Turkey Creek Solar Survey Area. ADDRESS: Turkey Creek Solar Survey Area. CITY/STATE: Lancaster KY ZIP: 40444	CLIENT: Linebach Funkhouser Inc. CONTACT: Bill Johnston INQUIRY #: 5978018.5s DATE: 02/20/20
--	---

MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

Focus Map - 9 - 5978018.5s



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



SITE NAME: Turkey Creek Solar Survey Area.
ADDRESS: Turkey Creek Solar Survey Area.
CITY/STATE: Lancaster KY
ZIP: 40444

CLIENT: Linebach Funkhouser Inc.
CONTACT: Bill Johnston
INQUIRY #: 5978018.5s
DATE: 02/20/20

MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
TURKEY CREEK SOLAR SURVEY AREA.
LANCASTER, KY 40444

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

NO MAPPED SITES FOUND

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property **LANCASTER, KY**

SPILLS **S117120917**
 N/A

Site 1 of 3 in cluster A

Actual:
1005 ft.

Focus Map:
5

SPILLS:

Name: Not reported
Address: Not reported
Facility Status: Env. Closed
Incident Type: FIRE/EXPLOSION
Program Code: 08
Received By Staff: McCracken, Amy
Received Date: 09/25/2007
Report Date: 2007-09-25 19:58:00
Dispatch Description: Allison Abrasives had an oven fire that has resulted in a hydraulic leak.

Source Name: Allison Abrasives Inc (AI ID: 1465)
Source Address: Crab Orchard Road EOC# 20073177
Substances: Hydraulic Oil:
Other Substances Desc: Not reported
Media Impacted: Solid Waste
Inc ID: 2265045
Lead Invest Person ID: 9368
Compliance: Yes
Notification: No
Priority: Routine
Incident End Date: 2007-11-16 00:00:00
Follow Up Priority Desc: Not reported
Most Recent Comp Eval Activity: Not reported
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Managed/Restored
Latitude: 37.60111
Longitude: -84.57944

A2
Target
Property **LANCASTER, KY**

SPILLS **S117071645**
 N/A

Site 2 of 3 in cluster A

Actual:
1005 ft.

Focus Map:
5

SPILLS:

Name: Not reported
Address: Not reported
Facility Status: Env. Closed
Incident Type: ODOR
Program Code: 01
Received By Staff: Ritter, Mark
Received Date: 10/24/2003
Report Date: 2003-10-27 14:26:39
Dispatch Description: Odor complaint at Allison Abrasive. According to complainant odor is a strong sulfur smell apparent on weekends and evenings.

Source Name: Allison Abrasives Inc (AI ID: 1465)
Source Address: Allison Abrasive, Lancaster Kentucky, Garrad County
Substances: Not reported
Other Substances Desc: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S117071645

Media Impacted: Air
Inc ID: 173972
Lead Invest Person ID: 9662
Compliance: Yes
Notification: No
Priority: Routine
Incident End Date: Not reported
Follow Up Priority Desc: Not reported
Most Recent Comp Eval Activity: AI: 1465 CIV20040001
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Unfounded
Latitude: 37.60111
Longitude: -84.57944

A3
Target
Property

LANCASTER, KY

SPILLS S117151172
N/A

Site 3 of 3 in cluster A

Actual:
1005 ft.

Focus Map:
5

SPILLS:
Name: Not reported
Address: Not reported
Facility Status: Env. Closed
Incident Type: ILLEGAL DISPOSAL (NOT OPEN DUMP)
Program Code: 08
Received By Staff: Thomas, Richard
Received Date: Not reported
Report Date: 2009-08-03 16:27:04
Dispatch Description: Manufacturer of abrasive cut-off wheels is pouring waste oil on the ground in the front of the building near the hot press/

Source Name: Allison Abrasives Inc (AI ID: 1465)
Source Address: 163 Industry Rd.
Substances: Not reported
Other Substances Desc: Not reported
Media Impacted: Solid Waste
Inc ID: 2299386
Lead Invest Person ID: 45381
Compliance: Yes
Notification: No
Priority: Routine
Incident End Date: Not reported
Follow Up Priority Desc: Not reported
Most Recent Comp Eval Activity: Not reported
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Unfounded
Latitude: 37.60111
Longitude: -84.57944

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

4 **INDUSTRIAL GENERAL CORPORATION**
Target **KY 39**
Property **LANCASTER, KY 40444**

UST **U001179899**
N/A

Actual:
899 ft.
Focus Map:
5

UST:
Name: INDUSTRIAL GENERAL CORPORATION
Address: KY 39
City,State,Zip: LANCASTER, KY 40444
Sequence Id: 1243040
Facility ID: 65998
Owner Name: NONE
Owner Address: Not reported
Owner Address2: Not reported
Owner Address3: Not reported
Owner City,St,Zip: NONE, NONE NONE
Internal Document ID: 0
Latitude: 37.606169
Longitude: -84.576003

Inert Material Code: Not reported
Removed Date: 01/01/1987
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: UNK
Pipe Rel Detect Suc Code: UNK
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: Not reported
Last Pipe Test Date: Not reported
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Prior to 1988
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcprcd: Unknown
Decode For Treldetcd: None
Decode For Tintprotcd: Unknown
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown
Decode For Ptypecode: Unknown
Decode For Preldetcd: Unknown
Decode For Preldetsuc: Unknown
Decode For Plekdetcd: Not Applicable
Decode For Tsubcd: Empty
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 2
Tank Status: TR8
Installation Date: 01/01/1982
Closed In Place Date: Not reported
Capacity in Gallons: 8000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL GENERAL CORPORATION (Continued)

U001179899

Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

Inert Material Code: Not reported
Removed Date: 01/01/1987
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: UNK
Pipe Rel Detect Suc Code: UNK
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: Not reported
Last Pipe Test Date: Not reported
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Prior to 1988
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcrprd: Unknown
Decode For Treldetcd: None
Decode For Tintprotcd: Unknown
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown
Decode For Ptypecode: Unknown
Decode For Preldetcd: Unknown
Decode For Preldetsuc: Unknown
Decode For Plekdetcd: Not Applicable
Decode For Tsubcd: Diesel
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 1
Tank Status: TR8
Installation Date: 01/01/1977
Closed In Place Date: Not reported
Capacity in Gallons: 99
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

5
Target
Property **LANCASTER, KY**

SPILLS **S117069877**
N/A

Actual:
873 ft.
Focus Map:
8

SPILLS:
Name: Not reported
Address: Not reported
Facility Status: Env. Closed
Incident Type: TRANSPORTATION ACCIDENT - TRUCK
Program Code: 08
Received By Staff: Simpson, Mark
Received Date: 08/03/2003
Report Date: 2003-08-04 11:22:15
Dispatch Description: Caller reported a vehicle accident that spilled 40 gallons of diesel fuel.

Source Name: Unknown
Source Address: Int. Hwy 27 and Hillcourt St.
Substances: Diesel:40
Other Substances Desc: Not reported
Media Impacted: Solid Waste
Inc ID: 171796
Lead Invest Person ID: 9440
Compliance: Yes
Notification: No
Priority: Routine
Incident End Date: Not reported
Follow Up Priority Desc: Routine
Most Recent Comp Eval Activity: Not reported
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Contained or Managed
Latitude: 37.57891
Longitude: -84.57891

B6
ENE
< 1/8
0.020 mi.
106 ft.
Site 1 of 2 in cluster B

UST **1000518001**
RCRA NonGen / NLR **KYD985077387**

Actual:
986 ft.
Focus Map:
2

UST:
Name: ALLISON ABRASIVES INC
Address: 163 INDUSTRY RD
City,State,Zip: LANCASTER, KY 40444
Sequence Id: 5425040
Facility ID: 1465
Owner Name: NONE
Owner Address: Not reported
Owner Address2: Not reported
Owner Address3: Not reported
Owner City,St,Zip: NONE, NONE NONE
Internal Document ID: 0
Latitude: 37.605438
Longitude: -84.576441

Inert Material Code: Not reported
Removed Date: 08/25/1986

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Prior to 1988
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Unknown
Decode For Treldetcd:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprpd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcd:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	Empty
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TR8
Installation Date:	01/01/1901
Closed In Place Date:	Not reported
Capacity in Gallons:	99
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	08/25/1986
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Prior to 1988
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcrprcd: Unknown
Decode For Treltcd: None
Decode For Tintprotcd: Unknown
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown
Decode For Ptypecode: Unknown
Decode For Preltcd: Unknown
Decode For Preltcdsuc: Unknown
Decode For Plekdetcd: Not Applicable
Decode For Tsubcd: Empty
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 1
Tank Status: TR8
Installation Date: 01/01/1901
Closed In Place Date: Not reported
Capacity in Gallons: 99
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

Inert Material Code: Not reported
Removed Date: 08/25/1986
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: UNK
Pipe Rel Detect Suc Code: UNK
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: Not reported
Last Pipe Test Date: Not reported
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Prior to 1988
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcrprcd: Unknown
Decode For Treltcd: None
Decode For Tintprotcd: Unknown
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Decode For Ptypecode: Unknown
Decode For Preditcod: Unknown
Decode For Preditcod: Unknown
Decode For Plekdetcod: Not Applicable
Decode For Tsubcd: Empty
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 3
Tank Status: TR8
Installation Date: 01/01/1901
Closed In Place Date: Not reported
Capacity in Gallons: 99
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

RCRA NonGen / NLR:

Date form received by agency: 2017-06-08 00:00:00.0
Facility name: ALLISON ABRASIVES INC.
Facility address: 163 INDUSTRY ROAD
LANCASTER, KY 40444
EPA ID: KYD985077387
Mailing address: P.O. BOX 192
LANCASTER, KY 40444
Contact: BRENT SEARS
Contact address: P.O. BOX 192
LANCASTER, KY 40444
Contact country: US
Contact telephone: 606-792-3118
Contact email: Not reported
EPA Region: 04
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ALLISON ABRASIVES INC.
Owner/operator address: 163 INDUSTRY ROAD
LANCASTER, KY 40444
Owner/operator country: US
Owner/operator telephone: 606-792-3118
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported
Owner/operator name: ALLISON ABRASIVES INC.
Owner/operator address: 163 INDUSTRY ROAD
LANCASTER, KY 40444
Owner/operator country: US
Owner/operator telephone: 606-792-3118
Owner/operator email: Not reported
Owner/operator fax: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 1995-06-23 00:00:00.0
Site name: ALLISON ABRASIVES INC.
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 2017-06-28 00:00:00.0
Date achieved compliance: 2017-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-09-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Area of violation: Listing - General
Date violation determined: 2017-06-28 00:00:00.0
Date achieved compliance: 2017-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 2017-09-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 2017-06-28 00:00:00.0
Date achieved compliance: 2017-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 2017-09-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 2017-06-28 00:00:00.0
Date achieved compliance: 2017-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-09-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030 sec 5
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-05-15 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:020, sec 7
Area of violation: Generators - Pre-transport

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030 sec 5
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-05-15 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:020, sec 7
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:020, sec 6
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-05-25 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:040
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Date achieved compliance: 1992-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:040
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:020, sec 6
Area of violation: Generators - Pre-transport
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-05-25 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE SCHEDULE EVALUATION
Enforcement action date: 1992-05-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2017-09-28 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Listing - General
Date achieved compliance: 2017-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-09-28 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Used Oil - Generators
Date achieved compliance: 2017-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-06-28 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Listing - General
Date achieved compliance: 2017-09-28 00:00:00.0
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON ABRASIVES INC. (Continued)

1000518001

Evaluation date:	2017-06-28 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Used Oil - Generators
Date achieved compliance:	2017-09-28 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-07-10 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-05-25 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-07-10 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-06-10 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-07-10 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-06-24 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-07-10 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-05-15 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-05-13 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-05-15 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-05-13 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-05-25 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-05-13 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-06-10 00:00:00.0
Evaluation lead agency:	State
Evaluation date:	1992-05-13 00:00:00.0
Evaluation:	WRITTEN INFORMAL
Area of violation:	Generators - Pre-transport
Date achieved compliance:	1992-06-24 00:00:00.0
Evaluation lead agency:	State

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

B7 **ALLISON ABRASIVES INC** **SHWS** **S122374678**
ENE **163 INDUSTRY ROAD**
< 1/8 **LANCASTER, KY 40444**
0.020 mi.
106 ft. **Site 2 of 2 in cluster B**

Actual: **SHWS:**
986 ft. Name: ALLISON ABRASIVES INC
Focus Map: Address: 163 INDUSTRY RD
2 City,State,Zip: LANCASTER, KY 40444
 Facility Id: 1465
 Status: **Closed**
 Description: SIMMONS CASKET COMPANY (Closed: referred 9/05/2017)
 Closure Date: 09/05/2017
 Longitude: -84.576441
 Latitude: 37.605438
 Subject Item County: Garrard
 Sub Item Longitude: -84.576165
 Sub Item Latitude: 37.605635
 Subject Item Address: 163 Industry Rd
 Subject Item Address2: Not reported
 Subject Item City,St,Zip: Lancaster, KY 40444
 Regulatory Desc: State Superfund
 Closure Option: Option C Restored
 Side SG: 15476

Name: ALLISON ABRASIVES INC
 Address: 163 INDUSTRY ROAD
 City,State,Zip: LANCASTER, KY 40444
 Facility Id: 1465
Status: **Closed**
 Description: ALLISON ABRASIVES (Closed: Restored)
 Closure Date: 07/21/1994
 Longitude: -84.576441
 Latitude: 37.605438
 Subject Item County: Garrard
 Sub Item Longitude: -84.578059
 Sub Item Latitude: 37.619439
 Subject Item Address: 163 Industry Rd
 Subject Item Address2: Not reported
 Subject Item City,St,Zip: Lancaster, KY 40444
 Regulatory Desc: Petroleum Cleanup
 Closure Option: Option C Restored
 Side SG: 20325

C8 **LANCASTER BEER & FOOD MART** **UST** **U004126070**
West **870 STANFORD ST**
< 1/8 **LANCASTER, KY 40444**
0.067 mi.
356 ft. **Site 1 of 2 in cluster C**

Actual: **UST:**
1028 ft. Name: LANCASTER BEER & FOOD MART
Focus Map: Address: 870 STANFORD ST
2 City,State,Zip: LANCASTER, KY 40444
 Sequence Id: 1004040
 Facility ID: 61734
 Owner Name: Jaspreet (Harpreet) Bath
 Owner Address: 870 Stanford St
 Owner Address2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANCASTER BEER & FOOD MART (Continued)

U004126070

Owner Address3: Not reported
Owner City,St,Zip: Lancaster, KY 40444
Internal Document ID: 0
Latitude: 37.602581
Longitude: -84.588885

Inert Material Code: Not reported
Removed Date: Not reported
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: FRP
Tank Overfill Protection: ASD
Last Tank Test Date: 04/23/2014
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: NON
Pipe Rel Detect Suc Code: CKV
Pipe Leak Detect Code: NA
Last Contained Date: 7/16/2016 12:00:00 AM
Pipe Mfg Code: FRP
Last Pipe Test Date: 09/16/2008
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: 04/01/1995
Decode For Tstatus: Temporarily Closed
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Fiberglass Reinforced
Decode For Textcrprcd: Not Applicable
Decode For Treldecod: Automatic Tank Gauging
Decode For Tintprotcd: Not Applicable
Decode For Tsplprevcd: Single Wall Spill Bucket
Decode For Tovflprvcd: Automatic Shutoff Device
Decode For Pmatcode: Fiberglass Reinforced Plastic
Decode For Pextcoprcd: Not Applicable
Decode For Ptypecode: Suction
Decode For Preldecod: None
Decode For Preldecod: Check Valve
Decode For Plekdecod: Not Applicable
Decode For Tsubcd: Kerosene
Decode For Tmancd: Fiberglass Manufacturer Unknown
Decode For Pmancd: Fiberglass Manufacturer Unknown
Subject Item ID: 3
Tank Status: TTC
Installation Date: 04/01/1995
Closed In Place Date: 07/06/2016
Capacity in Gallons: 2000
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: 04/01/1995

Inert Material Code: Not reported
Removed Date: Not reported
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: FRP
Tank Overfill Protection: FLR
Last Tank Test Date: 04/23/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANCASTER BEER & FOOD MART (Continued)

U004126070

Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: LTT
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: MLD
Last Contained Date: Not reported
Pipe Mfg Code: FRP
Last Pipe Test Date: 03/28/2019
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: 04/01/1995
Decode For Tstatus: Active
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Fiberglass Reinforced
Decode For Textcrprcd: Not Applicable
Decode For Treltdetcd: Automatic Tank Gauging
Decode For Tintprotcd: Not Applicable
Decode For Tsplprvcd: Single Wall Spill Bucket
Decode For Tovflprvcd: Flow Restrictor
Decode For Pmatcode: Fiberglass Reinforced Plastic
Decode For Pextcoprctd: Not Applicable
Decode For Ptypecode: Pressurized
Decode For Preldetcd: Line Tightness Test
Decode For Preldetsuc: None
Decode For Plekdetcd: Manual Line Leak Detection
Decode For Tsubcd: GAS-PRM-Prem Unl Gas
Decode For Tmancd: Fiberglass Manufacturer Unknown
Decode For Pmancd: Fiberglass Manufacturer Unknown
Subject Item ID: 1
Tank Status: TAC
Installation Date: 04/01/1995
Closed In Place Date: Not reported
Capacity in Gallons: 8000
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: 04/01/1995

Inert Material Code: Not reported
Removed Date: Not reported
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: FRP
Tank Overfill Protection: ASD
Last Tank Test Date: 04/23/2014
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: NON
Pipe Rel Detect Suc Code: CKV
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: FRP
Last Pipe Test Date: 09/16/2008
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: 04/01/1995
Decode For Tstatus: Active
Decode For Inertmatcd: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANCASTER BEER & FOOD MART (Continued)

U004126070

Decode For Tmatcode: Fiberglass Reinforced
Decode For Textcrprd: Not Applicable
Decode For Treltdetcod: Automatic Tank Gauging
Decode For Tintprotcd: Not Applicable
Decode For Tsplprevcd: Single Wall Spill Bucket
Decode For Tovflprvcd: Automatic Shutoff Device
Decode For Pmatcode: Fiberglass Reinforced Plastic
Decode For Pextcoprcd: Not Applicable
Decode For Ptypecode: Suction
Decode For Preltdetcod: None
Decode For Preltdetsuc: Check Valve
Decode For Plektdetcod: Not Applicable
Decode For Tsubcd: Diesel
Decode For Tmancd: Fiberglass Manufacturer Unknown
Decode For Pmancd: Fiberglass Manufacturer Unknown
Subject Item ID: 2
Tank Status: TAC
Installation Date: 04/01/1995
Closed In Place Date: Not reported
Capacity in Gallons: 2000
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: 04/01/1995

Inert Material Code: Not reported
Removed Date: Not reported
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: FRP
Tank Overfill Protection: FLR
Last Tank Test Date: 03/28/2013
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: LTT
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: MLD
Last Contained Date: Not reported
Pipe Mfg Code: FRP
Last Pipe Test Date: 03/28/2019
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: 04/01/1995
Decode For Tstatus: Active
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Fiberglass Reinforced
Decode For Textcrprd: Not Applicable
Decode For Treltdetcod: Automatic Tank Gauging
Decode For Tintprotcd: Not Applicable
Decode For Tsplprevcd: Single Wall Spill Bucket
Decode For Tovflprvcd: Flow Restrictor
Decode For Pmatcode: Fiberglass Reinforced Plastic
Decode For Pextcoprcd: Not Applicable
Decode For Ptypecode: Pressurized
Decode For Preltdetcod: Line Tightness Test
Decode For Preltdetsuc: None
Decode For Plektdetcod: Manual Line Leak Detection
Decode For Tsubcd: GAS-UNL-Reg Unl Gas

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANCASTER BEER & FOOD MART (Continued)

U004126070

Decode For Tmancd: Fiberglass Manufacturer Unknown
Decode For Pmancd: Fiberglass Manufacturer Unknown
Subject Item ID: 4
Tank Status: TAC
Installation Date: 04/01/1995
Closed In Place Date: Not reported
Capacity in Gallons: 8000
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: 04/01/1995

C9
West
< 1/8
0.067 mi.
356 ft.

BP EXPRESS
870 STANFORD RD
LANCASTER, KY 40444
Site 2 of 2 in cluster C

EDR Hist Auto 1020579423
N/A

Actual:
1028 ft.

EDR Hist Auto

Focus Map:
2

Year: Name:
2014 BP EXPRESS

Type:
Gasoline Service Stations, NEC

10
WNW
< 1/8
0.093 mi.
489 ft.

HILLARYS COUNTRY STORE
KY 893
HAZEL (CALLOWAY), KY 42049

UST U001180940
N/A

Actual:
1030 ft.

UST:
Name: HILLARYS COUNTRY STORE
Address: KY 893
City,State,Zip: HAZEL (CALLOWAY), KY 42049
Sequence Id: 2321018
Facility ID: 64772
Owner Name: Gould Oil Company Inc
Owner Address: 4724 US 641 S
Owner Address2: Not reported
Owner Address3: Not reported
Owner City,St,Zip: Hazel (Calloway), KY 42049
Internal Document ID: 0
Latitude: 36.500945
Longitude: -88.360346

Focus Map:
2

Inert Material Code: Not reported
Removed Date: 11/22/1994
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: NON
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: NA
Last Contained Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HILLARYS COUNTRY STORE (Continued)

U001180940

Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	None
Decode For Treldetcod:	None
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Suction
Decode For Preldetcod:	None
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TRM
Installation Date:	01/01/1978
Closed In Place Date:	12/03/1993
Capacity in Gallons:	560
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	11/22/1994
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	None
Decode For Treldetcod:	None
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HILLARYS COUNTRY STORE (Continued)

U001180940

Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: None
Decode For Ptypecode: Suction
Decode For Preldetcod: None
Decode For Preldetsuc: None
Decode For Plekdetcod: Not Applicable
Decode For Tsubcd: Gasoline
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 2
Tank Status: TRM
Installation Date: 01/01/1975
Closed In Place Date: 12/03/1993
Capacity in Gallons: 560
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

Inert Material Code: Not reported
Removed Date: 11/22/1994
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: NON
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: Not reported
Last Pipe Test Date: Not reported
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Tank Verified
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcrprcd: Unknown
Decode For Treldetcod: None
Decode For Tintprotcd: Not Applicable
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown
Decode For Ptypecode: Unknown
Decode For Preldetcod: None
Decode For Preldetsuc: None
Decode For Plekdetcod: Not Applicable
Decode For Tsubcd: Kerosene
Decode For Tmancd: Not reported
Decode For Pmancd: Not reported
Subject Item ID: 3
Tank Status: TRM
Installation Date: 01/01/1901
Closed In Place Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HILLARYS COUNTRY STORE (Continued)

U001180940

Capacity in Gallons: 150
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

11
ESE
< 1/8
0.110 mi.
583 ft.

GARRARD COUNTY DOT DRUMS
416 INDUSTRY ROAD
LANCASTER, KY 40444

RCRA NonGen / NLR **1000826344**
FINDS **KYD985097559**
ECHO

Actual:
991 ft.
Focus Map:
2

RCRA NonGen / NLR:
Date form received by agency: 2004-08-26 00:00:00.0
Facility name: GARRARD COUNTY DOT DRUMS
Facility address: 416 INDUSTRY ROAD
HWY 39 SOUTH
LANCASTER, KY 40444
EPA ID: KYD985097559
Mailing address: REILLY ROAD
FRANKFORT, KY 40601
Contact: KY STATE SUPERFUND
Contact address: REILLY ROAD
FRANKFORT, KY 40601
Contact country: US
Contact telephone: 502-564-6716
Contact email: Not reported
EPA Region: 04
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: KY TRANSPORTATION CABINET
Owner/operator address: 763 NEW CIRCLE ROAD
LEXINGTON, KY 40512
Owner/operator country: Not reported
Owner/operator telephone: 502-564-6716
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: KY TRANSPORTATION CABINET
Owner/operator address: 763 NEW CIRCLE ROAD
LEXINGTON, KY 40512
Owner/operator country: US
Owner/operator telephone: 502-564-6716
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GARRARD COUNTY DOT DRUMS (Continued)

1000826344

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 1992-09-10 00:00:00.0
Site name: GARRARD COUNTY DOT DRUMS
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003240485

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GARRARD COUNTY DOT DRUMS (Continued)

1000826344

ECHO:

Envid: 1000826344
Registry ID: 110003240485
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003240485>

12
North
1/4-1/2
0.260 mi.
1372 ft.

SIMMONS CASKET COMPANY
US 27 S INDS BLVD
LANCASTER, KY 40444

SEMS-ARCHIVE 1000301576
RCRA NonGen / NLR KYD050074889

Actual:
1029 ft.
Focus Map:
2

SEMS Archive:
Site ID: 0401994
EPA ID: KYD050074889
Name: SIMMONS CASKET COMPANY
Address: US 27 S INDS BLVD
Address 2: Not reported
City,State,Zip: LANCASTER, KY 40444
Cong District: 05
FIPS Code: 21079
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 04
Site ID: 0401994
EPA ID: KYD050074889
Site Name: SIMMONS CASKET COMPANY
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1992-08-28 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0401994
EPA ID: KYD050074889
Site Name: SIMMONS CASKET COMPANY
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 1980-08-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 04
Site ID: 0401994
EPA ID: KYD050074889

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SIMMONS CASKET COMPANY (Continued)

1000301576

Site Name: SIMMONS CASKET COMPANY
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1991-12-31 05:00:00
Finish Date: 1992-08-28 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 04
Site ID: 0401994
EPA ID: KYD050074889
Site Name: SIMMONS CASKET COMPANY
NPL: N
FF: N
OU: 00
Action Code: EA
Action Name: INT ASSESS
SEQ: 1
Start Date: 1993-09-29 04:00:00
Finish Date: 1993-09-29 04:00:00
Qual: L
Current Action Lead: EPA Perf

Region: 04
Site ID: 0401994
EPA ID: KYD050074889
Site Name: SIMMONS CASKET COMPANY
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1984-08-01 05:00:00
Qual: L
Current Action Lead: St Perf

RCRA NonGen / NLR:

Date form received by agency: 1980-08-15 00:00:00.0
Facility name: SIMMONS CASKET CO
Facility address: US 27 S & INDUSTRIAL BLVD
LANCASTER, KY 40444
EPA ID: KYD050074889
Mailing address: PO BOX 42
LANCASTER, KY 40444
Contact: F. B. MADDEN
Contact address: PO BOX 42
LANCASTER, KY 40444
Contact country: US
Contact telephone: 606-792-2101
Contact email: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SIMMONS CASKET COMPANY (Continued)

1000301576

EPA Region: 04
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SIMMONS CASKET COMPANY
Owner/operator address: US 27 SOUTH & INDUSTRIAL ROAD
LANCASTER, KY 40444
Owner/operator country: Not reported
Owner/operator telephone: 606-792-2101
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: NONE
. Waste name: None
Violation Status: No violations found

13
NNW
1/4-1/2
0.292 mi.
1542 ft.

GARRARD CO MAINTENANCE GARAGE
782 INDUSTRIAL RD
LANCASTER, KY 40444

SHWS U003990182
UST N/A

Actual:
957 ft.
Focus Map:
5

SHWS:
Name: GARRARD CO MAINTENANCE GARAGE
Address: 782 INDUSTRY ROAD
City,State,Zip: LANCASTER, KY 40444
Facility Id: 1470
Status: **Closed**
Description: Closed Option A 1/14/09
Closure Date: 01/14/2009
Longitude: -84.568056

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GARRARD CO MAINTENANCE GARAGE (Continued)

U003990182

Latitude: 37.598889
Subject Item County: Garrard
Sub Item Longitude: -84.569999
Sub Item Latitude: 37.598889
Subject Item Address: 782 Industrial Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Lancaster, KY 40444
Regulatory Desc: State Superfund
Closure Option: Option A No Action Necessary
Side SG: KYTC

UST:

Name: GARRARD CO MAINTENANCE GARAGE
Address: 782 INDUSTRIAL RD
City,State,Zip: LANCASTER, KY 40444
Sequence Id: 813040
Facility ID: 1470
Owner Name: KYTC Environmental Analysis
Owner Address: 200 Mero St 5th Fl
Owner Address2: Not reported
Owner Address3: Not reported
Owner City,St,Zip: Frankfort, KY 40622
Internal Document ID: 0
Latitude: 37.598889
Longitude: -84.568056

Inert Material Code: Not reported
Removed Date: 09/03/1997
Change in Service Date: Not reported
Tank Pit Num: Not reported
Tank Mfg Code: Not reported
Tank Overfill Protection: UNK
Last Tank Test Date: Not reported
Relined Date: Not reported
Lining Insp Date: Not reported
Pipe Release Detection: UNK
Pipe Rel Detect Suc Code: UNK
Pipe Leak Detect Code: NA
Last Contained Date: Not reported
Pipe Mfg Code: Not reported
Last Pipe Test Date: Not reported
Last CP Test Date: Not reported
Added To Flex Date: Not reported
Added To Piping Date: Not reported
Decode For Tstatus: Removed Tank Verified
Decode For Inertmatcd: Not reported
Decode For Tmatcode: Single Wall Steel
Decode For Textcrpcd: Unknown
Decode For Treldetcd: None
Decode For Tintprotcd: Unknown
Decode For Tsplprevcd: Unknown
Decode For Tovflprvcd: Unknown
Decode For Pmatcode: Single Wall Steel
Decode For Pextcoprcd: Unknown
Decode For Ptypecode: Unknown
Decode For Preldecd: Unknown
Decode For Preldecsuc: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GARRARD CO MAINTENANCE GARAGE (Continued)

U003990182

Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TRM
Installation Date:	01/01/1980
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	09/03/1997
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	3
Tank Status:	TRM
Installation Date:	01/01/1980
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GARRARD CO MAINTENANCE GARAGE (Continued)

U003990182

Inert Material Code: Not reported
 Removed Date: 09/03/1997
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: Not reported
 Tank Overfill Protection: UNK
 Last Tank Test Date: Not reported
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: UNK
 Pipe Rel Detect Suc Code: UNK
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported
 Pipe Mfg Code: Not reported
 Last Pipe Test Date: Not reported
 Last CP Test Date: Not reported
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Removed Tank Verified
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprcd: Unknown
 Decode For Treldecod: None
 Decode For Tintprotcd: Unknown
 Decode For Tsplprevcd: Unknown
 Decode For Tovflprvcd: Unknown
 Decode For Pmatcode: Single Wall Steel
 Decode For Pextcoprcd: Unknown
 Decode For Ptypecode: Unknown
 Decode For Preldecod: Unknown
 Decode For Preldecod: Unknown
 Decode For Plekdecod: Not Applicable
 Decode For Tsubcd: Gasoline
 Decode For Tmancd: Not reported
 Decode For Pmancd: Not reported
 Subject Item ID: 1
 Tank Status: TRM
 Installation Date: 01/01/1980
 Closed In Place Date: Not reported
 Capacity in Gallons: 2000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

14
 WNW
 1/2-1
 0.584 mi.
 3085 ft.

**LANCASTER RESERVOIR
 WATER WORKS RD
 LANCASTER, KY 40444**

**SHWS S111026339
 N/A**

Actual:
 888 ft.
Focus Map:
 2

SHWS:
 Name: LANCASTER RESERVOIR
 Address: WATER WORKS RD
 City,State,Zip: LANCASTER, KY 40444
 Facility Id: 7140
Status: **Closed**
 Description: OLD LANCASTER RESERVOIR (Closed: Restored)
 Closure Date: 06/18/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANCASTER RESERVOIR (Continued)

S111026339

Longitude: -84.591393
Latitude: 37.605278
Subject Item County: Garrard
Sub Item Longitude: -84.594542
Sub Item Latitude: 37.606966
Subject Item Address: US 27 & Pump House Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Lancaster, KY 40444
Regulatory Desc: State Superfund
Closure Option: Option C Restored
Side SG: 44034

15 **JOE ADAMS ESTATE**
NNE **HIGHWAY 52**
1/2-1 **LANCASTER, KY 40444**
0.888 mi.
4690 ft.

SHWS **S106884908**
 N/A

Actual:
1020 ft.
Focus Map:
2

SHWS:
Name: JOE ADAMS ESTATE
Address: HIGHWAY 52
City,State,Zip: LANCASTER, KY 40444
Facility Id: 52662
Status: Closed
Description: JOE ADAMS ESTATE (Closed: Restored)
Closure Date: 05/03/1995
Longitude: -84.569525
Latitude: 37.616835
Subject Item County: Garrard
Sub Item Longitude: -84.569524
Sub Item Latitude: 37.616835
Subject Item Address: KY 52
Subject Item Address2: Not reported
Subject Item City,St,Zip: Lancaster, KY 40444
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 33857

Count: 10 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LANCASTER	U003415965	REDWOOD SERVICE STATION	S US 27 STANFORD RD	40444	UST
LANCASTER	1015806481	LANCASTER-RICHMOND RD - GARRAD CO	LANCASTER-RICHMOND RD	40444	FINDS
LANCASTER	S108018483	PEER SERVICE STATION #21	STANFORD ROAD	40444	Financial Assurance
STANFORD	1017786656	FD02 069 1781 B00050N 04.99	KY 1781 OVER CRAB ORCHARD CREE	40484	RCRA NonGen / NLR, FINDS, ECHO
STANFORD	1015842214	KYTC WETLAND BANK - LINCOLN CO	JUST EAST OF CRAB ORCHARD & EAST BANK OF DIX RIVER	40484	FINDS
STANFORD	S125362629	KYTC DISTRICT 8	STANFORD KY		ASBESTOS
STANFORD	S123237202	TRI-K LANDFILL INC (AI ID: 2726)	HAL ROGERS PARKWAY WEST TO I-75. TAKE I-75 NORTH. TAKE EXIT 59. TURN LEFT ON U.S. 25. STAY STRATE ON U.S. 150 AT RED LIGHTS. TURN LEFT ON U.S. 27 IN STANFORD. JUST SHORT OF 1 MILE TURN RIGHT ON KY-78.		ASBESTOS
STANFORD	S123494052	ABATEMENT SOLUTIONS TECHNOLOGIES	STANFORD KY		ASBESTOS
STANFORD	S109569664	BP OF STANDARD	1001 LANCASTER STREEST	40484	Financial Assurance
STANFORD	S108902478	PCN 051244	HUSTONVILLE - STANFORD RD	40484	NPDES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

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

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019	Source: EPA
Date Data Arrived at EDR: 12/16/2019	Telephone: 800-424-9346
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

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

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

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 11/04/2019	Source: Department of the Navy
Date Data Arrived at EDR: 11/13/2019	Telephone: 843-820-7326
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/10/2020
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 11/22/2019
Number of Days to Update: 67	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 11/22/2019
Number of Days to Update: 67	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

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

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 11/21/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

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

SWF/LF: Solid Waste Facilities List

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

Date of Government Version: 11/26/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

PSTEAF: Facility Ranking List

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

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/15/2019
Number of Days to Update: 38

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 01/08/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

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

Date of Government Version: 10/15/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/17/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 12/16/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

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

Date of Government Version: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6271
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019	Source: EPA, Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-7439
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

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

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-8677
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

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

Date of Government Version: 10/01/2019	Source: EPA Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

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

Date of Government Version: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-6597
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SB193: SB193 Branch Site Inventory List

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

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/18/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 04/08/2016
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: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

UST: Underground Storage Tank Database

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

Date of Government Version: 11/07/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/30/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 71

Source: Office of State Fire Marshal
Telephone: 502-564-4010
Last EDR Contact: 02/14/2020
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

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

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-7591
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2019	Source: EPA Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-6136
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-9424
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/04/2020
	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: 04/08/2019	Source: EPA Region 9
Date Data Arrived at EDR: 07/29/2019	Telephone: 415-972-3368
Date Made Active in Reports: 10/17/2019	Last EDR Contact: 01/24/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2019	Source: EPA, Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

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

Date of Government Version: 09/24/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/25/2019	Telephone: 502-564-6716
Date Made Active in Reports: 10/22/2019	Last EDR Contact: 11/21/2019
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

INST CONTROL: State Superfund Database

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

Date of Government Version: 09/23/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/24/2019	Telephone: 502-564-6716
Date Made Active in Reports: 11/08/2019	Last EDR Contact: 11/21/2019
Number of Days to Update: 45	Next Scheduled EDR Contact: 03/09/2020
	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: 09/23/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/25/2019	Telephone: 502-564-6716
Date Made Active in Reports: 10/22/2019	Last EDR Contact: 11/21/2019
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/17/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

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: 09/30/2019	Source: Division of Compliance Assistance
Date Data Arrived at EDR: 11/07/2019	Telephone: 502-564-0323
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 01/12/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 04/26/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/04/2019	Telephone: 202-566-2777
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 12/16/2019
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/30/2020
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

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

Date of Government Version: 09/13/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/23/2019	Telephone: 502-564-6716
Date Made Active in Reports: 01/03/2020	Last EDR Contact: 01/17/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: Varies

HIST LF: Historical Landfills

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

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

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/27/2020
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/17/2020
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory

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

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

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

IHS OPEN DUMPS: Open Dumps on Indian Land

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

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

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Location Listing

Clandestine drug lab site locations.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 11/21/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/05/2019
Date Data Arrived at EDR: 12/06/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 69

Source: DEP, Emergency Response
Telephone: 502-564-2380
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

Other Ascertainable Records

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

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

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 11/12/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/19/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/09/2020
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/13/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 09/23/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/24/2019	Telephone: 202-566-1917
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 12/19/2019
Number of Days to Update: 87	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 02/03/2020
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/07/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 12/20/2019
Number of Days to Update: 198	Next Scheduled EDR Contact: 03/30/2020
	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: 12/31/2017	Source: EPA
Date Data Arrived at EDR: 11/16/2018	Telephone: 202-566-0250
Date Made Active in Reports: 11/21/2019	Last EDR Contact: 02/05/2020
Number of Days to Update: 370	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 05/01/2019	Source: EPA
Date Data Arrived at EDR: 10/23/2019	Telephone: 202-564-4203
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 703-416-0223
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/02/2019	Telephone: 202-564-8600
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 01/21/2020
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/06/2020
Number of Days to Update: 8	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 01/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/06/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/25/2019	Telephone: 301-415-7169
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 01/21/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018	Source: Department of Energy
Date Data Arrived at EDR: 12/04/2019	Telephone: 202-586-8719
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 12/04/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 11/25/2019
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/07/2020
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/07/2020
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/31/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 11/15/2019
Number of Days to Update: 74	Next Scheduled EDR Contact: 03/02/2020
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/05/2020	Telephone: 703-603-8787
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

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

Date of Government Version: 12/03/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/09/2020
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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

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

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 10/06/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

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

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/19/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/26/2019
Date Data Arrived at EDR: 11/27/2019
Date Made Active in Reports: 02/04/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Semi-Annually

ASBESTOS: Asbestos Notification Listing Asbestos sites

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/15/2019
Number of Days to Update: 44

Source: Department of Environmental Protection
Telephone: 502-782-6780
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

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

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 05/03/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

Date of Government Version: 11/26/2019
Date Data Arrived at EDR: 11/27/2019
Date Made Active in Reports: 02/04/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Semi-Annually

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

Date of Government Version: 11/27/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 06/24/2014
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/02/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD: Environmental Lead Program Report Tracking Database Lead Report Tracking Database

Date of Government Version: 01/27/2017	Source: Department of Public Health
Date Data Arrived at EDR: 02/02/2017	Telephone: 502-564-4537
Date Made Active in Reports: 08/21/2017	Last EDR Contact: 02/03/2020
Number of Days to Update: 200	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

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

Date of Government Version: 12/03/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2019	Telephone: 502-564-3410
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/03/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Semi-Annually

UIC: UIC Information A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 07/26/2019	Source: Kentucky Geological Survey
Date Data Arrived at EDR: 10/16/2019	Telephone: 859-323-0544
Date Made Active in Reports: 12/16/2019	Last EDR Contact: 01/14/2020
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 11/22/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 03/09/2020
	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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 05/14/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/03/2020
Number of Days to Update: 60

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 01/30/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

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: 02/18/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes

Source: Cabinet for Families & Children

Telephone: 502-564-7130

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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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Attachment 2

Photo Log

Photo Log
Phase I Environmental Site Assessment
Proposed Turkey Creek Solar Energy Project
Garrard County, Kentucky 40941



Photo Log
Phase I Environmental Site Assessment
Proposed Turkey Creek Solar Energy Project
Garrard County, Kentucky 40941

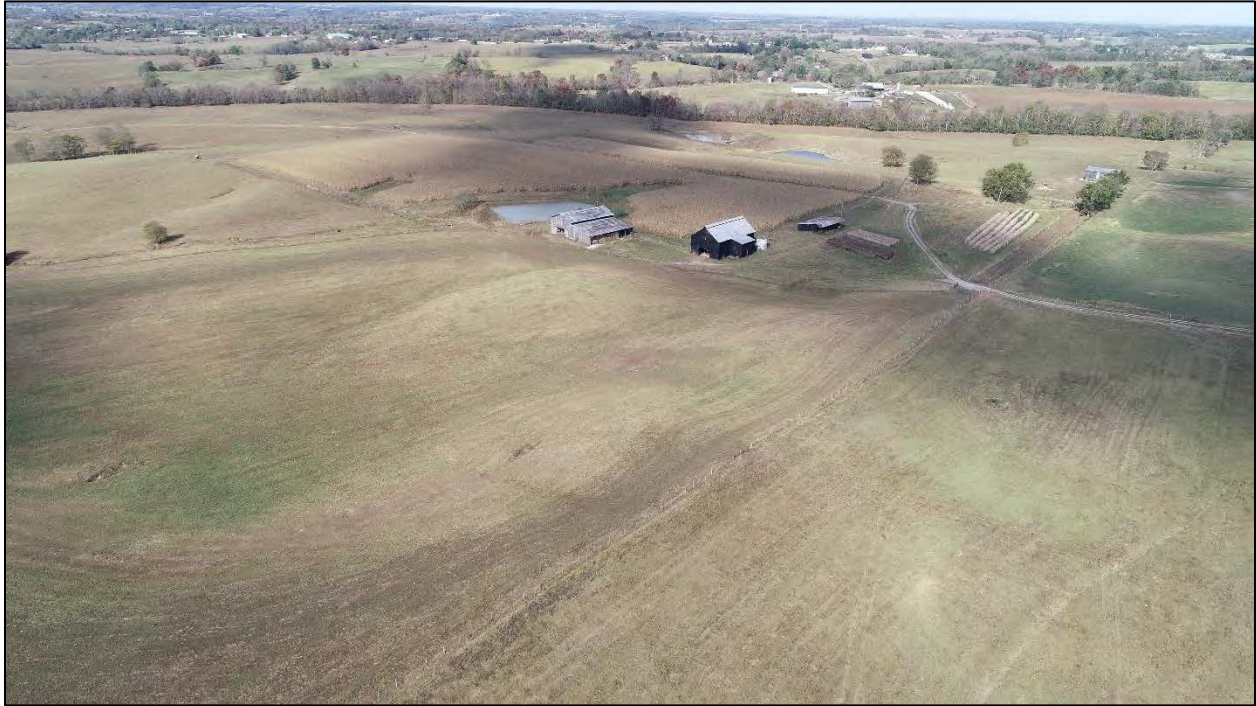


Photo Log
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Proposed Turkey Creek Solar Energy Project
Garrard County, Kentucky 40941



Heating oil tank at old residence

Attachment 3

Freedom of Information Act Request



NOTA

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

MEMORANDUM

TO: INDUSTRIAL GENERAL CORPORATION
OLIVE AND TAYLOR STREETS
ELYRIA, OH 44035

FROM: Joan Cullen-Lollis, Supervisor *JCL*
Underground Storage Tank Program

DATE: October 25, 1989

SUBJECT: Request for Updated Underground Storage Tank Information

The Division of Waste Management, Underground Storage Tank Program is updating its records of underground storage tank registrations. Please examine the enclosed information regarding your underground storage tank(s). If information listed is incorrect, please clearly mark changes. If there are no changes, please mark "No Changes Necessary". Return the enclosed forms to this agency no later than **November 15, 1989**. This information will be used to verify or correct our existing records.

Please note that you have been assigned the Facility I.D. #1243040. It is necessary that you refer to this number with any future correspondence with this agency.

Your assistance in this matter would be appreciated. Should you have any questions, please do not hesitate to contact Jane Akin at (502) 564-6716.

tre

No Changes Necessary _____

DESCRIPTION OF UNDERGROUND STORAGE TANK	
FACILITY ID: 1243040	TANK ID NUMBER: 0001
TANK STATUS	
Currently in Use	
Temporarily out of Use	X
Permanently out of Use	
Brought into Use after 6/8/86	
Year Installed (last 2 digits e.g., 89 for present year)	77
Estimated Total Capacity (gallons)	99
Date Removed (month/year)	-----
MATERIAL OF CONSTRUCTION	
Steel	X
Concrete	
Fiberglass/Reinforced Plastic	
Unknown	
Other, please specify	
INTERNAL PROTECTION	
Cathodic Protection	
Interior Lining (epoxy resins e.g.)	
None	
Unknown	X
Other, please specify	
EXTERNAL PROTECTION	
Cathodic Protection	
Painted (asphaltic e.g.)	
Fiberglass/Reinforced Plastic Coated	
None	
Unknown	X
Other, please specify	
PIPING	
Bare steel	
Galvanized steel	X
Fiberglass/Reinforced Plastic coated	
Cathodic Protection	
Unknown	
Other, please specify	
SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME	
Empty	X
PETROLEUM Diesel	X
Kerosene	
Gasoline (include alcohol blends)	
Used Oil	
Other, please specify	
HAZARDOUS SUBSTANCE	
Principal CERCLA Substance Name	
Chemical Abstract Service (CAS) Number	
Stores a Mixture of Substances	
Unknown	
ADDITIONAL INFORMATION (for tanks permanently taken out of service)	
Estimated date last used (month/year)	
Estimated Quantity of Substance Remaining (gallons)	0
Tank filled with inert material (sand, concrete e.g.)	

DESCRIPTION OF UNDERGROUND STORAGE TANK

FACILITY ID: 1243040

TANK ID NUMBER: 0002

TANK STATUS

Currently in Use	
Temporarily out of Use	X
Permanently out of Use	
Brought into Use after 6'8 86	
Year Installed (last 2 digits e.g., 89 for present year)	82
Estimated Total Capacity (gallons)	8000
Date Removed (month/year)	-----

MATERIAL OF CONSTRUCTION

Steel	X
Concrete	
Fiberglass/Reinforced Plastic	
Unknown	
Other, please specify	

INTERNAL PROTECTION

Cathodic Protection	
Interior Lining (epoxy resins e.g.)	X
None	
Unknown	
Other, please specify	

EXTERNAL PROTECTION

Cathodic Protection	
Painted (asphaltic e.g.)	
Fiberglass/Reinforced Plastic Coated	
None	
Unknown	X
Other, please specify	

PIPING

Bare steel	
Galvanized steel	X
Fiberglass/Reinforced Plastic coated	
Cathodic Protection	
Unknown	
Other, please specify	

SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME

Empty	X
PETROLEUM Diesel	
Kerosene	
Gasoline (include alcohol blends)	
Used Oil	
Other, please specify	
HAZARDOUS SUBSTANCE	
Principal CERCLA Substance Name	2-BUTANONE TOLUENE
Chemical Abstract Service (CAS) Number	78933 10888
Stores a Mixture of Substances	
Unknown	

ADDITIONAL INFORMATION (for tanks permanently taken out of service)

Estimated date last used (month/year)	
Estimated Quantity of Substance Remaining (gallons)	0
Tank filled with inert material (sand, concrete e.g.)	

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2050-0049
APPROVAL EXPIRES 6-30-88

FOR TANKS IN KY

RETURN COMPLETED FORM TO

Natural Resources Cabinet
Division of Waste Management
Attention: Vicki Pettus
18 Reilly Road
Frankfort, KY 40601

REC'D JUL 20 1987
DWM/PROGRAM DEVELOPMENT BRANCH
GENERAL INFORMATION

I.D. Number

STATE USE ONLY

Date Received

1243-040

7-20-87

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means — (a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are: 1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes; 2. tanks used for storing heating oil for consumptive use on the premises where stored; 3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

1

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Industrial General Corporation

Street Address

Olive and Taylor Streets

County

Lorain County

City

Elyria

State

Ohio

ZIP Code

44035

Area Code

(216)

Phone Number

323-3136

Type of Owner (Mark all that apply)

Current

State or Local Gov't

Private or Corporate

Former

Federal Gov't (GSA facility I.D. no. _____)

Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here)

Facility Name or Company Site Identifier, as applicable

Industrial General Corporation

Street Address or State Road, as applicable

Kentucky Route 39

County

Garrard County

City (nearest)

Lancaster

State

Kentucky

ZIP Code

40444

Indicate number of tanks at this location

2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here)

Job Title

Area Code

Phone Number

Nate Buchanan

Former Plant Manager

(606)

636-6681

IV. TYPE OF NOTIFICATION

Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

Scribner L. Fauver, Secretary

Signature

Scribner L. Fauver

Date Signed

July 15, 1987

CONTINUE ON REVERSE SIDE

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No.	Tank No.	Tank No.	
1. Status of Tank (Mark all that apply <input checked="" type="checkbox"/>) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Estimated Age (Years)	19	5				
3. Estimated Total Capacity (Gallons)	Unknown	8000				
4. Material of Construction (Mark one <input checked="" type="checkbox"/>) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
5. Internal Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
6. External Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
7. Piping (Mark all that apply <input checked="" type="checkbox"/>) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input checked="" type="checkbox"/>) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify c. Hazardous Substance Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> 2-Butanone Toluene 78933 108883 <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.) c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	N/A 0 <input type="checkbox"/>	N/A 0 <input type="checkbox"/>	/	/	/	

1243040

FAUVER, TATTERSALL & GALLAGHER

ATTORNEYS AT LAW

400 LORAIN COUNTY BANK BUILDING

ELYRIA, OHIO 44035

J. C. WM. TATTERSALL
JOHN P. GALLAGHER
SCRIBNER L. FAUVER
WORTH A. FAUVER, JR.
JOHN L. KEYSE-WALKER

OF COUNSEL:
R. W. VANDEMARK
BRUCE ALEXANDER

July 15, 1987

(216) 322-3784

(216) 322-6373

OBERLIN:

(216) 774-5555

State of Kentucky
Natural Resources Cabinet
Division of Waste Management
18 Reilly Road
Frankfort, Kentucky 40601

RECEIVED

JUL 20 1987

DWM/PROGRAM
DEVELOPMENT BRANCH

Attention: Vicki Pettus

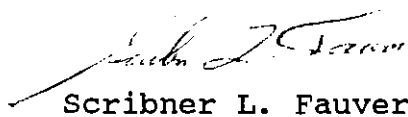
RE: Industrial General Corporation

Dear Ms. Pettus:

I am enclosing a Notification for Underground Storage Tanks for filing on behalf of Industrial General Corporation, together with an attached statement.

If further information is required in connection with this filing, please do not hesitate to contact me.

Sincerely,


Scribner L. Fauver

SLF/jmk
Enclosure
File No. 10,661

INDUSTRIAL GENERAL CORPORATION

Statement for Attachment to
Notification for Underground Storage Tanks

This Statement is for attachment to the Notification for Underground Storage Tanks filed on behalf of Industrial General Corporation in connection with two underground storage tanks located at its property in Lancaster, Kentucky, immediately northeast of Kentucky Route 39, approximately 700 feet east of its intersection with U.S. Route 27.

Industrial General Corporation has not conducted any operations at this location since 1980. The property was leased to a tenant who operated the property until 1984, but the facility has been vacant since 1984.

Industrial General Corporation has not had operations in Kentucky since 1980 and was unaware of the requirement to file this Notification until recently, when it contracted to sell the property to Garrard County. It is expected that that transaction will go through very shortly.

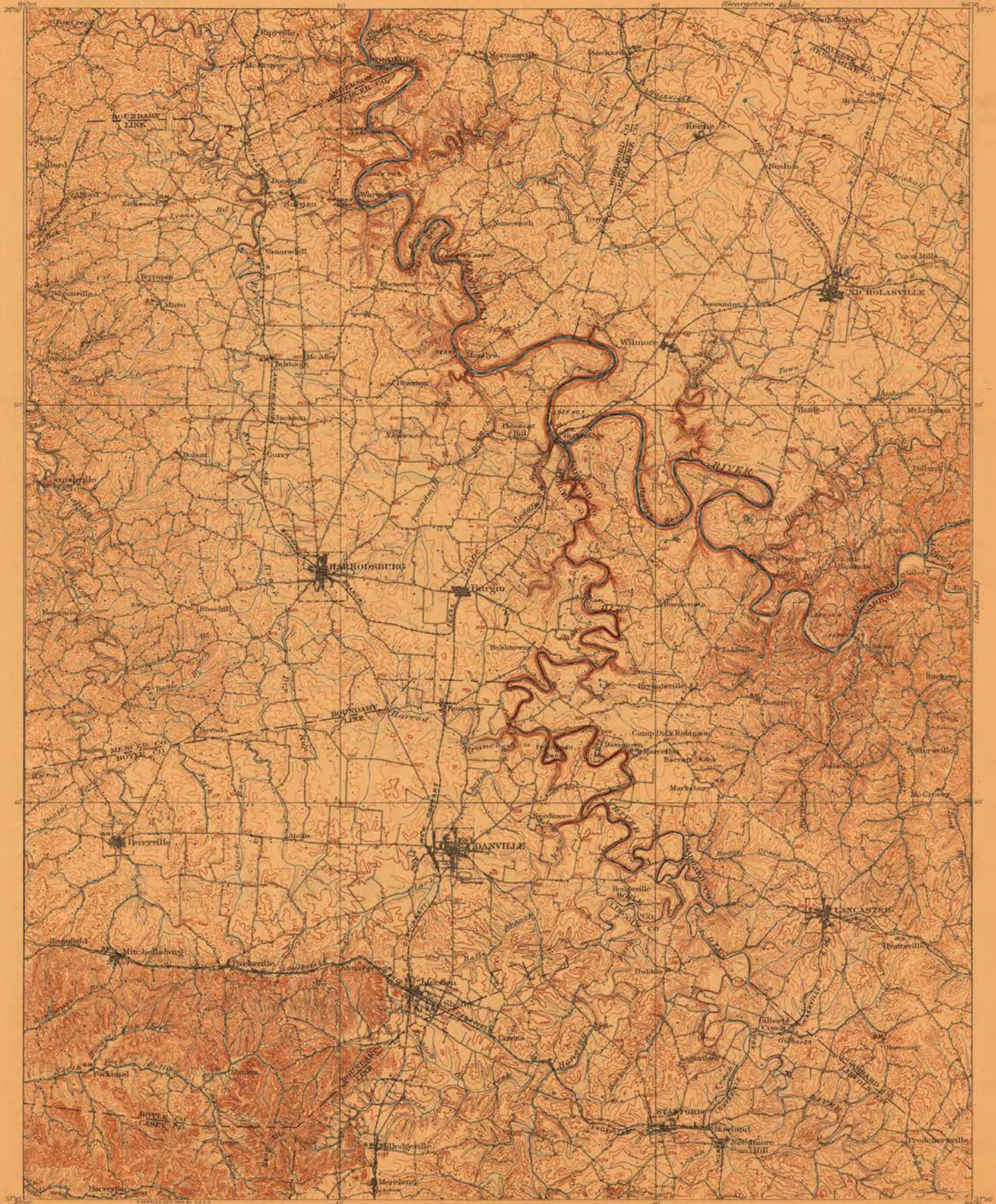
INDUSTRIAL GENERAL CORPORATION

By: *Scribner L. Fauver*
Scribner L. Fauver,
Secretary

Attachment 4

Topographic Maps

TOPOGRAPHY



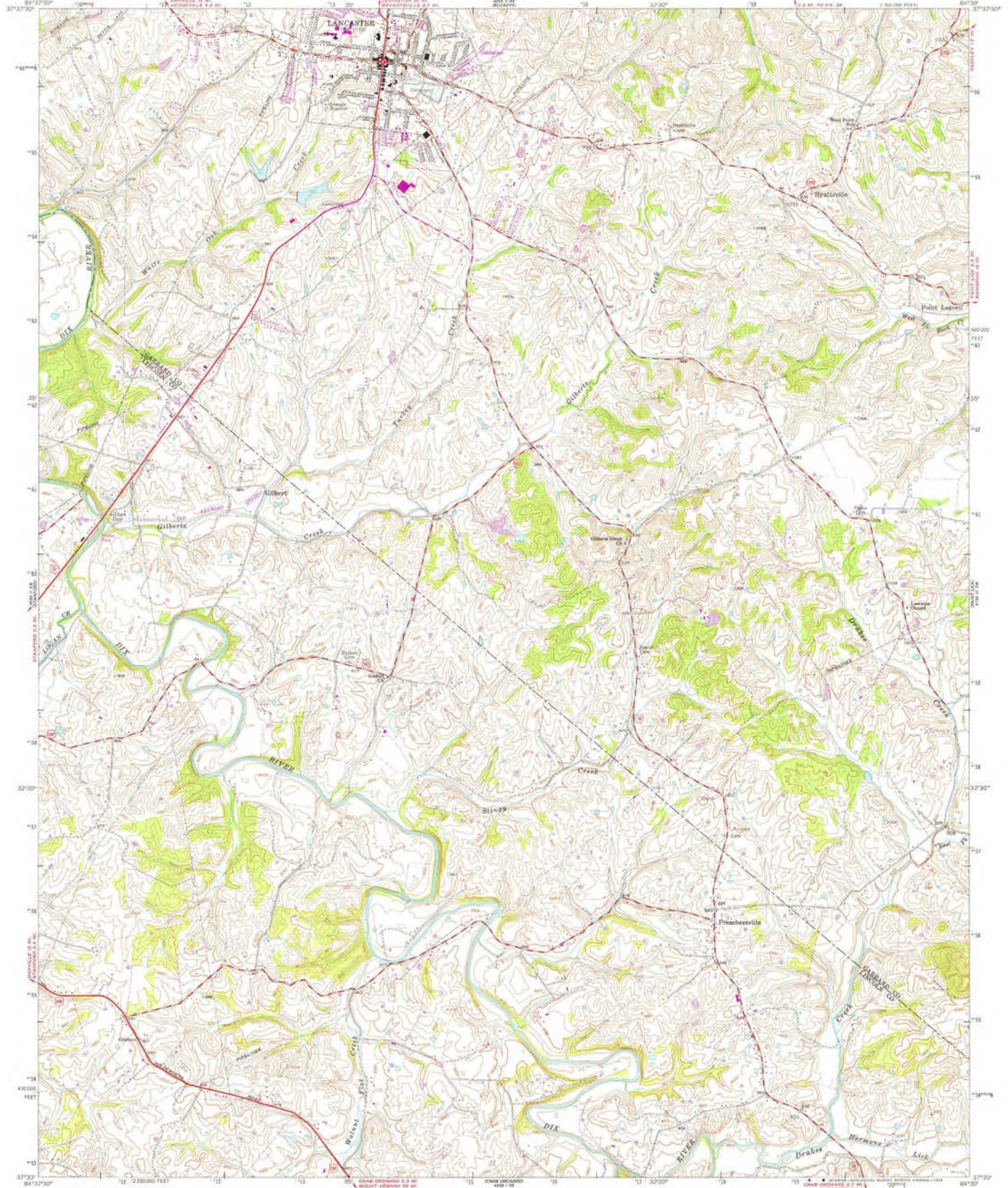
H.M. Wilson, Geographer in charge
Topography by W.L. Miller and Hersey Moore
Triangulation by G.M. Foster
Revised 1922-1923



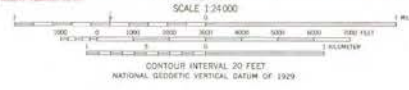
USGS
Historical File
Topographic Division
FILE COPY

Edition of 1905, reprinted 1912

NOV 20 1918
HARRODSBURG



Mapped, edited, and published by the Geological Survey
Control by USGS and USCGS
Topography by photogrammetric methods from aerial photographs
taken 1950, field checked 1952, Revised 1965
Projection, 1927 North American datum
10,000-foot grid based on Kentucky coordinate system, south zone
1000-meter Universal Transverse Mercator grid, zone
16, shown in blue
Firm red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked.
Residence shown in purple and buildings
compiled from aerial photographs taken 1976
and other source data. Contours adjacent to
certain photochecked hydrographic features.
This information not field checked. Map edited 1979.



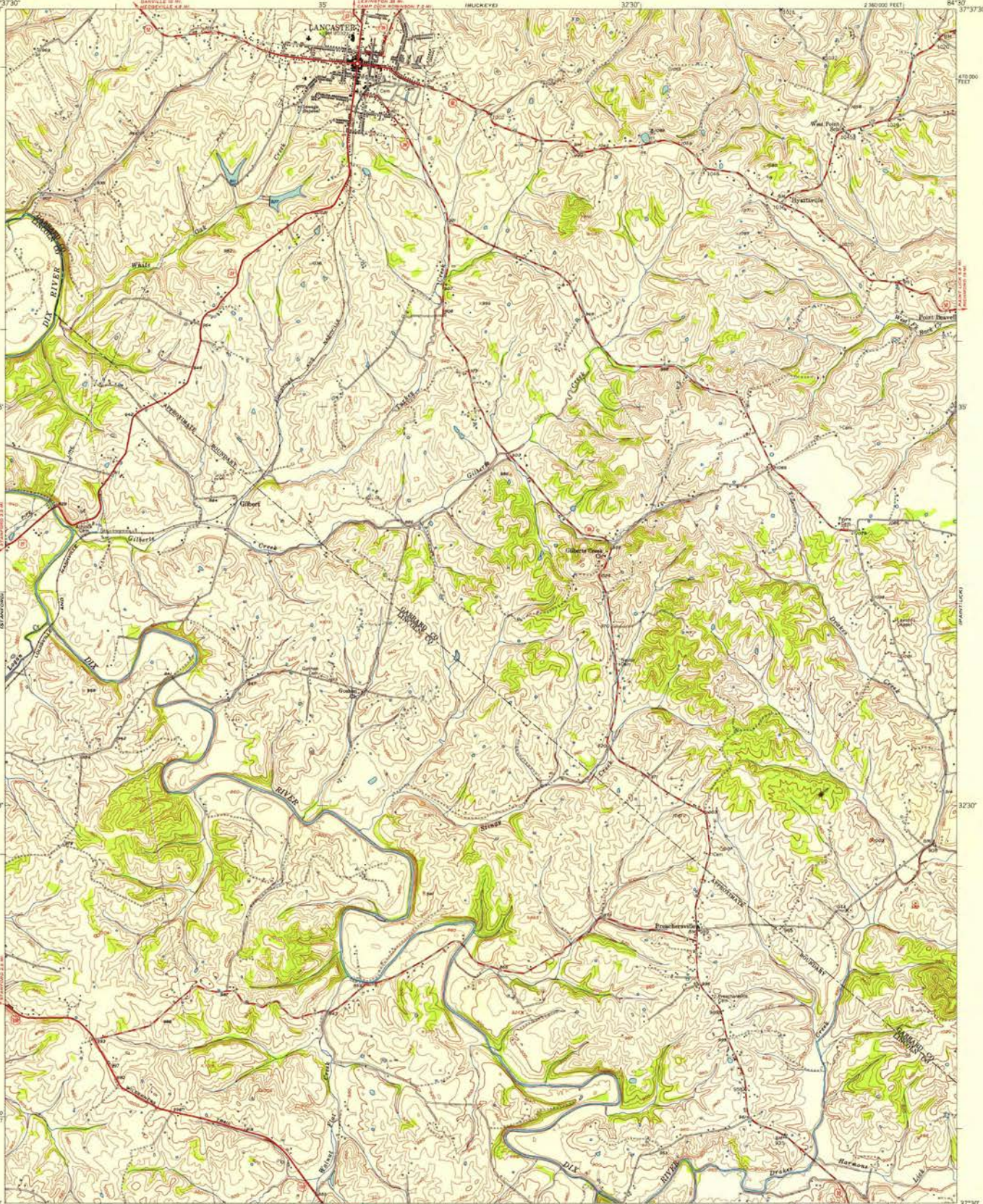
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY 40506
AND KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY 40601
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



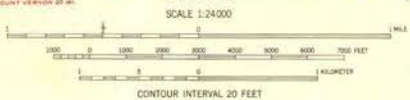
MAP AND AIR PHOTO
LIBRARY
SEP 17 1973
University of Wisconsin
Madison

LANCASTER, KY.
K3730-WA831/7.5
1961
PHOTOREVISED 1979
AMS 4054 H 86-SERIES 1965

ROAD CLASSIFICATION
Heavy-duty
Medium-duty
U.S. Route
Light-duty
Unimproved dirt
State Route



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1950. Field check 1952
Polyconic projection. 1927 North American datum
10,000-foot grid based on Kentucky coordinate system,
south zone



ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

APPROXIMATE MEAN
DECLINATION, 1952

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
AND KENTUCKY AGRICULTURAL AND INDUSTRIAL DEVELOPMENT BOARD, FRANKFORT, KENTUCKY
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



LANCASTER, KY.
SEA LANCASTER 19 QUADRANGLE
N3730-W8430/7.5

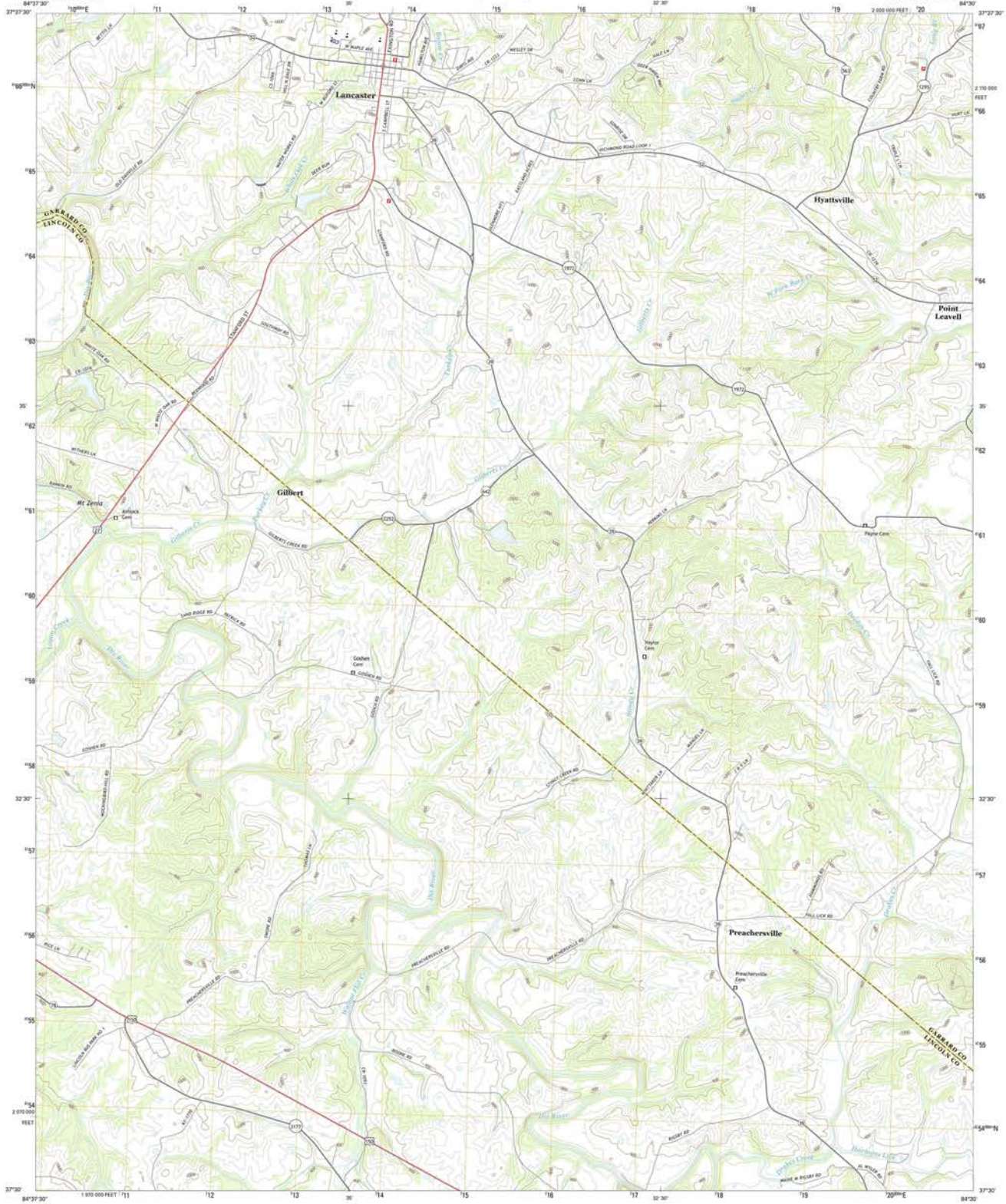
1952 UNITED STATES GEOLOGICAL SURVEY
Department of Geograph



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



LANCASTER QUADRANGLE
KENTUCKY
7.5-MINUTE SERIES

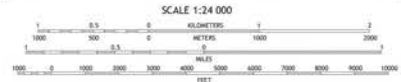
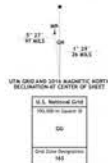


Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1:5000 meter grid. Universal Transverse Mercator, Zone 18S
10 000 foot ticks. Kentucky Coordinate System of 1983 (south
zone)

This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Map Date: June 2014
Map No.: 6000
Scale: 1:24,000
Projection: UTM
Datum: NAD83
Zone: 18S
Units: Meters
Elevation: Mean Sea Level
Boundaries: National Geographic Society, 2002
Boundaries: National Geographic Society, 1977 - 2004

Vertical: FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Computer Program US Topo Product Standard, 2011.
A metadata file associated with this product is drn version 0.4.0

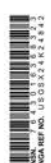


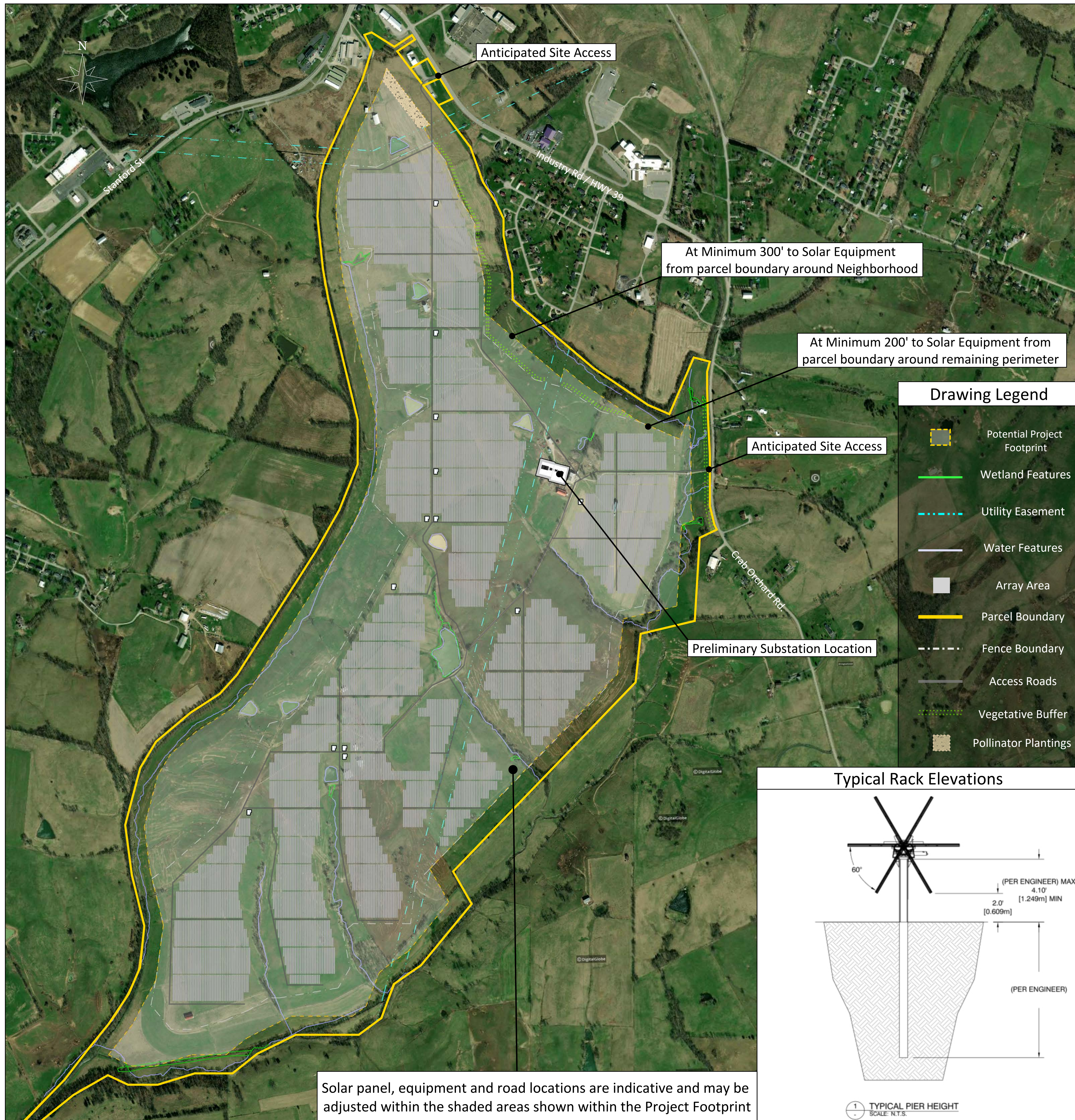
ROAD CLASSIFICATION

Expressway	Local Collector
Secondary Hwy	Local Road
Ramp	rdw
Interstate Route	US Route
	State Route

1	2	3	1	Braytonville
2	3	4	2	Stuckey
3	4	5	3	Wicksville
4	5	6	4	Stanford
5	6	7	5	Paris Lick
6	7	8	6	Palis Gap
7	8	9	7	Camp Orchard
8	9	10	8	Stratford

LANCASTER, KY
2016





Solar panel, equipment and road locations are indicative and may be adjusted within the shaded areas shown within the Project Footprint

Standard Notes

- (1) The Purpose of this plan is for a Power Generation Permit for review and approval by the Kentucky State Siting Board to construct a solar energy system. All information shown is for planning purposes only.
- (2) The property lines, existing improvements, and topographic data shown hereon are not based on a field survey and have been completed from ArcGIS & Google Earth Imagry. No field evidence of property markers were located with this Exhibit.
- (3) Wetlands and Streams are shown representative of a delineation received by Carolina Solar Energy.
- (4) Project area will be cleared and grubbed as necessary, retaining pre-development drainage patterns as much as possible. Minor grading will occur around inverter areas to divert surface drainage. Areas subject to rutting during construction will be temporarily stabilized with gravel that will remain after construction. Soil conditions and equipment loads will determine final design.
- (5) Proposed construction and temporary laydown yard/construction staging area to be used during site construction. A portion of this area will be covered with gravel to allow delivery of construction materials. Prior to construction, this area will be compacted by a smooth drum or sheepsfoot roller to reduce/prevent rutting. Following construction gravel laydown yard will be removed.
- (6) Access aisles shown on this plan indicate construction and maintenance access points for ingress/egress. Prior to construction, these aisles are compacted by a smooth drum or sheepsfoot roller to reduce/prevent rutting. Gravel may be placed in high traffic or poorly draining areas during construction activities to improve access. Soil access aisle will be scarified, aerated, and re-seeded after construction. Access aisles to inverters may require gravel to support delivery equipment loads. Soil conditions and final equipment selection will determine if gravel access aisles will be required to inverter locations
- (7) All Right-Of-Ways are public unless noted otherwise.
- (8) Utility lines and services shown hereon are approximate per aerial photography or as reported by various responsible parties. Location of underground utilities are not shown. Call appropriate authorities before digging.
- (9) No lighting is proposed for the array area. The Interconnection Substation will have some lighting.
- (10) 6' tall chain link fence with three strands of barbed wire or similar to meet National Electric Code requirements. The proposed access gate will be will be locked with a standard keyed or combination lock. Emergency personnel will be provided a key or combination for access.



Carolina Solar Energy
400 W Main St
Durham, NC 27701
Suite 503

Turkey Creek Farm
50 MWAC

ISSUE
11.25.19
12.04.19
12.08.19

PROJECT
Turkey Creek

DRAWN BY
CJ

DESCRIPTION
Array Layout

a

01