



## Draft Environmental Assessment

### FEDERAL AVIATION ADMINISTRATION MEMPHIS AIRPORTS DISTRICT OFFICE

Airport Name: West Liberty Airport (9I3)

Proposed Project: Runway 7-25 Obstruction Removal

Date Submitted to FAA: \_\_\_\_\_

This environmental assessment becomes a Federal document when evaluated, signed, and dated by the Responsible FAA Official.

\_\_\_\_\_  
Responsible FAA Official

\_\_\_\_\_  
Date

### **General Information and applicability**

This Environmental Assessment (EA) is to be used only for federally obligated airports within the boundaries of the Federal Aviation Administration (FAA) Memphis Airports District Office (ADO), which includes the states of Kentucky, North Carolina, and Tennessee. Prior to preparing any NEPA documentation, including this form, contact the Memphis (MEM) ADO Environmental Protection Specialist or designated staff responsible for NEPA compliance for the subject airport to determine the level of documentation needed. Completed documentation without prior FAA concurrence may result in approval delays or rejection of NEPA documentation.

The EA is intended to be used only when the following conditions are met:

- (1) the federal action cannot be categorically excluded (CATEX) because of involvement with extraordinary circumstances or because the action is not consistent with any CATEX described in FAA Orders 1050.1F<sup>1,2</sup> or 5050.4B (or subsequent versions),
- (2) impacts from the federal action would be limited to one extraordinary circumstance,
- (3) the federal action would not create significant impacts to any environmental category unless it is mitigated to the point of non-significance, and
- (4) the action is not considered controversial.

Note that in certain cases FAA may elect to prepare a full EA even if these conditions appear to be met.

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<sup>1</sup> On June 30, 2025, FAA rescinded FAA Order 1050.1F and issued FAA Order 1050.1G, *FAA National Environmental Policy Act Implementing Procedures*, to update FAA's NEPA implementing procedures. See Notice of Rescission of FAA Order 1050.1F, Availability of FAA Order 1050.1G, Request for Comments, 90 FR 29,615 (July 3, 2025). Because the preparation of this EA was already underway when this revision to FAA Order 1050.1 took place, and because this revision does not change the analysis of environmental effects for this proposed action, this EA continues to rely on FAA Order 1050.1F. However, any direction in FAA Order 1050.1F that is inconsistent with Executive Order (EO) 14173, Ending Illegal Discrimination and Restoring Merit-Based Opportunity, EO 14154, Unleashing American Energy, or the Supreme Court's decision in *Seven Cnty. Infrastructure Coal. v. Eagle Cnty., Colo.*, 605 U.S. 168 (2025) is superseded and will not be followed.

<sup>2</sup> FAA Order 1050.1F requires agency NEPA documents to contain an analysis of the Proposed Action's overall "Cumulative Impacts." The underlying basis for the inclusion of "Cumulative Impacts" in FAA Order 1050.1F was its inclusion in the Council for Environmental Quality's now-rescinded NEPA-implementing regulations. The NEPA statute, as amended, does not employ the term "cumulative effects" or "cumulative impacts." Agencies are to only consider the proposed action at hand and that action's reasonably foreseeable effects, consistent with NEPA. See 42 U.S.C. § 4332(2)(C)(i). See also *Seven Cnty. Infrastructure Coal. v. Eagle Cnty., Colo.*, 605 U.S.168 (2025). In accordance with this direction, the FAA will no longer characterize effects as "cumulative" in its NEPA documents.



### **Steps for Completing EA**

This EA is intended to comply with FAA requirements for satisfying NEPA. The preparer should be familiar with NEPA and FAA laws, requirements, and policies, including, but not limited to, FAA Orders 1050.1F and 5050.4B (or subsequent versions).

The EA is formatted into three sections. Section I covers general information on the Proposed Project as well as information and certification from the preparer and airport sponsor. Section II addresses the purpose and need statement and alternatives. Section III covers affected environment and environmental consequences.

All sections must be addressed for the form to be considered complete. The level of information needed to address each section is dependent upon the project and extent of impacts. However, for Section III, responses should provide enough information to allow the reviewer(s) to conclude there is no impact or no significant impact. A graphic depiction of the Proposed Project must be attached to the form. The use of additional graphics, pictures of the study area, and appendices is recommended and may be required pending upon the Proposed Project and environmental impacts.

As previously mentioned, Section III addresses the affected environment and environmental consequences. If the Proposed Project does not impact a particular resource, provide a brief explanation for why there is no impact. If the Proposed Project does impact a resource, describe the affected environment for the resource before discussing environmental consequences. For all resources, consider impacts caused by construction and post-construction activities. Also consider direct and indirect impacts. Helpful factors that should be considered as part of the assessment and internet websites are listed below each resource section. The factors to be considered and websites provided are not intended to be a comprehensive list. Additional factors and sources should be reviewed as needed. Consultation with resource agencies, field analysis, or computer modeling may be required to aid FAA in determining the extent of impacts. The preparer should contact the MEM-ADO representative to determine the level of agency coordination, field analysis, and modeling needed.

Although multiple variations exist for adequately completing the NEPA process, the MEM-ADO recommends following the generalized steps below for Short-Form EAs:

- 1. Finalize planning process**
- 2. Conduct preliminary environmental analysis**
- 3. Obtain concurrence from MEM-ADO on use of this form**
- 4. Conduct agency scoping, field analysis, and modeling as needed**

- 5. Complete draft EA**
- 6. Submit draft EA to MEM-ADO**
- 7. Revise draft EA as needed**
- 8. Obtain concurrence from MEM-ADO to initiate public involvement**
- 9. Make draft EA available to public and issue public notice**
- 10. Hold public meeting (if required)**
- 11. Revise draft EA as needed**
- 12. Submit final draft EA to MEM-ADO**
- 13. Receive FONSI**
- 14. Issue public notice for availability of final EA and FONSI**

Completion of this EA will permit FAA to issue one of the following determinations:

- (1) issue a Finding of No Significant Impact (FONSI)
- (2) request that a full EA be prepared
- (3) request that an Environmental Impact Statement (EIS) be prepared

## Section I

### 1. Airport and Project Information:

Airport Name and Three Letter Identifier: West Liberty Airport (913)

Airport Address: 50 Airport Way

City: West Liberty County: Morgan State: KY

Project Name: Runway 7-25 Obstruction Removal

Estimated Start Date: February 1, 2027 Estimated Completion Date: March 30, 2027

### 2. Preparer Information:

Name: Ryan Mountain

Title: Planning and Environmental Team Leader

Organization: Garver

Address: 4300 South J.B. Hunt Drive, Ste. 240

City: Rogers State: AR

Telephone: 479-287-4628

E-mail: [rcmountain@garverusa.com](mailto:rcmountain@garverusa.com)

#### Preparer Certification

I certify that the information I have provided in this document is, to the best of my knowledge, correct.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### 3. Airport Sponsor Information:

Name: Jeremiah Meyer

Title: Board Chairman

Organization: West Liberty-Morgan County Airport Board

Address: 450 Prestonburg Street

City: West Liberty State: KY

Telephone: 606-743-3897

E-mail: [aemech97@yahoo.com](mailto:aemech97@yahoo.com)

#### **Airport Sponsor Certification**

I certify that the information I have provided in this document is, to the best of my knowledge, correct. I also recognize and agree that no construction activity, including but not limited to site preparation, demolition, or land disturbance, shall proceed until the FAA issues a final environmental decision for the proposed project described in this document.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## Section II

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### **1. Provide purpose and need statement.**

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West Liberty Airport (913), as shown in Appendix A, has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Project is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in Appendix A. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Obstructions identified as structures (i.e., power poles) need to be lighted for compliance with FAA regulations.

West Liberty-Morgan County Airport Board has requested federal funding from FAA to implement Proposed Project, specifically funds from the Infrastructure Investment and Jobs Act (IIJA) Public Law [P.L.] 117-58), which appropriated \$25 billion over a five-year period (Fiscal Year 2022 (FY22) to 2026 (FY26)) for the National Airspace System (NAS) improvements. FAA's funding of Proposed Project is considered a major federal action subject to National Environmental Protection Act (NEPA).

### **2. Describe the preferred alternative and include all connected actions. Attach a graphic depiction of the Proposed Project, including haul routes and staging areas if applicable, to the back of this form or in an appendix.**

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The preferred alternative is shown in **Appendix A** and includes removal of individual trees have been identified as obstructions to both runway end approaches. These obstructions are located off airport property on privately owned properties. Obstruction removal will include tree felling 22 trees on the Runway 7 end and 9 trees on the Runway 25 end by hand and left in place or removed. Stumps will be ground to match the existing ground elevation. One utility pole was identified as an obstruction on the Runway 7 end and will be lighted according to FAA standards.

### **3. Describe the no action alternative including the environmental, operational, and economic impacts that would occur if used.**

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The No Action Alternative would not remove the obstructions identified in **Appendix A** and would therefore limit the use of Runway 7-25 and not be in compliance with FAA regulations related to Part 77 cleared airspace.

### **3. List and describe other reasonable alternatives.**

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There are no other reasonable action alternatives considered in this EA.

**4. Provide rationale for why other reasonable alternatives were removed from consideration.**

One alternative would require full Runway Protection Zone (RPZ) acquisition to gain complete control of the RPZ for obstruction clearing and incur greater environmental impacts such as residential and business relocations and property acquisition. Tree topping is not considered a prudent alternative due to the regrowth of trees.

## Section III

Two study areas were identified to describe the affected environment, and the potential environmental consequences associated with the Proposed Project. These two areas are identified as the project study areas (Runway 7 end and Runway 25 end)(see **Figure 3**).

The project study areas cover approximately 9 acres total divided between two (2) non-contiguous locations. The Runway 7 end study area is 3.95 acres in size and consists predominantly of maintained airport grassed areas, a forested ravine and hillsides, residential communities, and portions of Dogwood Lane, and portions of an ephemeral to intermittent stream. The Runway 25 end study area is 4.98 acres in size and contains maintained airport grassed areas, forested hillsides, residential yards, portions of a commercial building and Crestview Lane. The project study area was developed to fully encompass the area where reasonably foreseeable environmental effects from the Proposed Project may occur.

### **(A) Air Quality**

#### Factors to consider:

- (1) Impacts from aircraft, ground vehicle, and equipment emissions
- (2) Project location with respect to NAAQS attainment/maintenance/non-attainment areas.
- (3) Modeling requirements

**Note: Impacts should be discussed for any project involving outside construction.**

#### Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
- (2) FAA 5050.4B Desk Reference air quality section:  
[http://www.faa.gov/airports/environmental/environmental\\_desk\\_ref/media/desk-ref-chap1.pdf](http://www.faa.gov/airports/environmental/environmental_desk_ref/media/desk-ref-chap1.pdf)
- (3) EPA Greenbook<sup>3</sup>: <http://www3.epa.gov/airquality/greenbook/>

### **Affected Environment**

The Airport is located in Morgan County, Kentucky, which is a county identified as in attainment of all National Ambient Air Quality Standards (NAAQS) according to the United States Environmental Protection Agency (EPA) Greenbook.

### **Environmental Consequences**

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<sup>3</sup> Environmental Protection Agency. Green Book: Kentucky Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. September 23, 2024.  
[https://www3.epa.gov/airquality/greenbook/anayo\\_ky.html](https://www3.epa.gov/airquality/greenbook/anayo_ky.html)

### **No Action Alternative**

The No Action Alternative will have no effect on air quality.

### **Proposed Project**

The Proposed Project may slightly increase temporary construction-related vehicles accessing the site during construction but will not alter aircraft activity, changes in runway use patterns, or operational effects from ground access vehicles; therefore, no aircraft or surface transportation emissions are expected to rise to the level of significance. Temporary increases in emissions resulting from stump grinding activities may occur for a limited period of time at the project site and in the immediately adjacent areas.

### **(B) Biological Resources**

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#### Factors to consider:

- (1) Impacts to federal and state-listed species
- (2) Impacts to non-listed species and migratory birds
- (3) Impacts to habitat

**Note:** Impacts should be discussed for any project involving terrain/vegetation disturbance.

#### Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
- (2) USFWS IPAC: <http://ecos.fws.gov/ipac/>
- (3) KY state list <http://naturepreserves.ky.gov/pubs/Pages/cntyreport.aspx>

### **Affected Environment**

A habitat assessment was completed for the study area. The study area contains fragmented forested areas with young to mature trees, maintained grassed residential yards and airport property, and public access roads. Dominant vegetation consists of American sycamore (*Platanus occidentalis*), tulip poplar (*Liriodendron tulipifera*), white oak (*Quercus alba*), hornbeam (*Carpinus caroliniana*), eastern redbud (*Cercis canadensis*), black walnut (*Juglans nigra*), Bermuda grass (*Cynodon dactylon*), Johnsongrass (*Sorghum halapense*), common ragweed (*Ambrosia artemisiifolia*), plantain (*Plantago lanceolata*), Virginia buttonweed (*Diodia virginiana*), fescue (*Schedonorus arundinaceus*), fern (*Polystichum acrostichoides*), ticktrefoil (*Desmodium paniculatum*), blackberry (*Rubus* spp.), and sumac (*Rhus* spp.).

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (Figure 2). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks characterized by lack of vegetation and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe



of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

### ***Federal and State Listed Species***

The United States Department of the Interior, Fish and Wildlife Service (USFWS) was consulted early during the development of this document. Species lists and agency responses are located in Appendix B. The USFWS Information for Planning and Consultation (IPaC) on-line tool was used to identify potential habitat for six federally listed endangered species, one proposed threatened species, and three proposed endangered species that may occur in or pass through the study area and are listed in **Table 1**. No critical habitats were identified within or near the study area. The study area for Biological Resources is shown in **Appendix B**.

**Table 1: Federally Listed Species**

| <b>Species*</b>                                                                        | <b>Habitat Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Habitat Present Within Direct Study Area</b>                                                                                     | <b>Effects Determination</b>               |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Northern Long-eared Bat<br>( <i>Myotis septentrionalis</i> )<br>Endangered             | In winter, Northern Long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. They are easily overlooked and often wedge themselves back into wall cracks.                                                                                                                                                                                                                                                                                                | Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat. | May Affect, Not likely to adversely affect |
| Tricolored Bat<br>( <i>Perimyotis subflavus</i> )<br>Proposed Endangered               | In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needles attached to living trees. They commonly forage along riparian corridors. Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats. | Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat. | May Affect, Not likely to adversely affect |
| Indiana Bat<br>( <i>Myotis sodalis</i> )<br>Endangered                                 | The Indiana bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found beneath slabs of exfoliated bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.                                                                                                                                                                                                                                                                               | Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat. | May Affect, Not likely to adversely affect |
| Gray Bat<br>( <i>Myotis grisescens</i> )<br>Endangered                                 | The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.                                                                                                                                                                                                                                                                                                                                   | No caves, mines, or tunnels are within the study area.                                                                              | No effect                                  |
| Virginia Big-eared Bat<br>( <i>Corynorhinus townsendii virginianus</i> )<br>Endangered | Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.                                                                                                                                                                                                                                                                                                                                                                                                                                               | No caves are located in the study area.                                                                                             | May Affect, Not likely to adversely affect |

| Species*                                                                                           | Habitat Requirements                                                                                                                                                                                                                                                                                 | Habitat Present Within Direct Study Area                                                                                                           | Effects Determination                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Eastern Hellbender<br>( <i>Cryptobranchus alleganiensis alleganiensis</i> )<br>Proposed Endangered | Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.                                           | No suitable habitat is located within the study area or will be affected by the Proposed Project.                                                  | Not likely to jeopardize the continued existence of the species |
| Pink Mucket<br>( <i>Lampsilis abrupta</i> )<br>Endangered                                          | The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.                                                                                                                                                                                                             | No suitable habitat is located within the study area or will be affected by the Proposed Project.                                                  | No effect                                                       |
| Salamander Mussel<br>( <i>Simpsonia ambigua</i> )<br>Proposed Endangered                           | The salamander mussel inhabits fast moving rivers under large flat rocks.                                                                                                                                                                                                                            | No suitable habitat is located within the study area or will be affected by the Proposed Project.                                                  | Not likely to jeopardize the continued existence of the species |
| Snuffbox Mussel<br>( <i>Epioblasma triquetra</i> )<br>Endangered                                   | The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave project.                                                                                                                                                                               | No suitable habitat is located within the study area or will be affected by the Proposed Project.                                                  | No effect                                                       |
| Monarch Butterfly<br>( <i>Danaus plexippus</i> )<br>Proposed Threatened                            | Monarch butterflies require the presence of milkweed ( <i>Asclepias</i> sp.), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands. | Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area. | Not likely to jeopardize the continued existence of the species |

\*USFWS IPaC Official Species List, June, 2025.

The Office of Kentucky Nature Preserves (OKNP) Rare Plant Database was consulted to identify state species of concern within the county. Additionally, the OKNP biological assessment tool was completed and results indicate that the Eastern Spotted Skunk (*Spilogale putorius*) has been documented within the project area. This species has a special concern state status, common global rank, and rare/uncommon state rank. Two additional species have been recorded within the buffer footprint around the project area and include the Northern Madtom (*Noturus stigmosus*) and Buffalo Clover (*Trifolium reflexum*). The Northern Madtom has a special concern state status, uncommon global rank, and rare/uncommon state rank. Buffalo Clover has an endangered state status, common to uncommon global rank, and rare/extremely rare state rank. Detailed habitat for these species and the OKNP eight plant species that could occur in Morgan County, is described in **Table 2**.

Additionally, the Kentucky Department of Fish and Wildlife (KDFW) responded to the Kentucky Stat e-Clearinghouse that due to the location and nature of the project, they have no specific concerns regarding federal or state species. They did provide recommendations to include sediment and erosion control measures and to coordinate with the USFWS. Additional recommendations are located in their response within the overall e-Clearinghouse response. Refer to **Appendix B** for OKNP, KDFW, and USFWS coordination and responses.

**Table 2: State Listed Species**

| Species*                                                          | Habitat Requirements                                                                                                     | Habitat Present Within Disturbance Study Area                                                               |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Eastern Spotted Skunk<br>( <i>Spilogale putorius</i> )            | Forest edges, riparian corridors, upland prairie grasslands, and abandoned farm buildings and woody fence rows.          | Suitable habitat is present within the study area. This species has been observed within the project area.* |
| Northern Madtom<br>( <i>Noturus stigmosus</i> )                   | Small creeks and streams with moderate flow with sand, gravel, or rock substrates.                                       | No suitable habitat is present within the study area.                                                       |
| Buffalo Clover<br>( <i>Trifolium reflexum</i> )                   | Rocky open woodlands and priaries and typically found in acidic soils.                                                   | Suitable habitat is present within the study area.                                                          |
| Mountain Maple<br>( <i>Acer spicatum</i> )                        | This species occurs along streams and ravines, in rich and moist soils of mixed forests, and often at higher elevations. | Suitable habitat is present within the study area.                                                          |
| American Golden-saxifrage<br>( <i>Chrysosplenium americanum</i> ) | Wetter habitats in forests, along streams and swamps.                                                                    | Possible suitable habitat is present within the study area near the ephemeral drainages.                    |
| Small Enchanter's Nightshade<br>( <i>Circaea alpina</i> )         | Moist uplands in forests and near streams.                                                                               | Suitable habitat may be present within the study area.                                                      |
| Small Yellow Lady's Slipper<br>( <i>Cypripedium parviflorum</i> ) | This species occurs in damp understories of deciduous and coniferous forests, open meadows, and along streams.           | Suitable habitat may be present within the study area.                                                      |
| White Walnut<br>( <i>Juglans cinerea</i> )                        | Streambanks and benches, slopes, and well-drained soils.                                                                 | Suitable habitat may be present within the study area on well-drained slopes.                               |
| Tall Bush-clover<br>( <i>Lespedeza stuevei</i> )                  | Longleaf pine and other dry woodlands and boarders.                                                                      | No suitable habitat may be present within the study area.                                                   |
| Cutleaf Meadow-parsnip<br>( <i>Thaspium pinnatifidum</i> )        | Limestone, cedar glades with openings.                                                                                   | No suitable habitat is present within the study area.                                                       |

\*State listed species in Morgan County. OKNP, August 2025.

## Environmental Consequences

### **No Action Alternative**

The No Action Alternative will have no effect on air quality.

### **Proposed Project**

Direct impacts to 31 mature trees will decrease available habitat for bird, reptile, and mammal species. Informal Section 7 consultation was initiated for these species on March 3, 2026. The Proposed Project would have a no effect determination for the Gray Bat, Pink Mucket, and Snuffbox Mussel, and a may affect, not likely to adversely affect determination for the Northern Long-eared Bat, Indiana bat, Tricolored Bat, and Virginia Big-eared Bat. USFWS concurrence of these findings has been received and included in Appendix B. The Proposed Project would not jeopardize the continued existence of the Eastern Hellbender, Salamander Mussel, and Monarch Butterfly.

## **(C) Greenhouse Gas Emissions<sup>4</sup>**

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Factors to consider: (none)

Resources:

- (1) FAA Aviation Emissions and Air Quality Handbook, V4 (2024),  
[https://www.faa.gov/regulations\\_policies/policy\\_guidance/envir\\_policy/airquality\\_handbook/files/airquality\\_handbook\\_version\\_4.pdf](https://www.faa.gov/regulations_policies/policy_guidance/envir_policy/airquality_handbook/files/airquality_handbook_version_4.pdf)

### **Affected Environment**

Scientific research has determined that increasing concentrations of greenhouse gases (GHGs) in the atmosphere affects global climate. These GHGs include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. These emissions primarily result from anthropogenic sources including the combustion of fossil fuels. Minimizing GHG emissions and identifying potential future impacts of climate change are important to maintain a sustainable national airspace system.

### **Environmental Consequences**

#### ***No Action Alternative***

The No Action Alternative will have no effect on air quality.

#### ***Proposed Project***

The Proposed Project is not expected to include even a temporary increase in GHG emissions and any emissions of GHGs as a result of the Proposed Project would be considered negligible compared to the annual U.S. emissions of GHG.

## **(D) Coastal Resources**

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Factors to consider:

- (1) Impacts to Coastal Barrier Resources<sup>5</sup> and Coastal Zone Management (CAMA)  
(2) Need for Federal Consistency Review.

Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

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<sup>4</sup> Consistent with FAA Order 1050.1F, the FAA retains the review of a proposed action's greenhouse gas emissions, but it does not include an evaluation of social cost of carbon or a monetization of impacts of greenhouse gas emissions, in accordance with Executive Order 14154, Unleashing American Energy, and Office of Management and Budget guidance (OMB memorandum M-25-27, dated May 5, 2025).

<sup>5</sup> U.S. Fish and Wildlife Service. Coastal Barrier Resource System Mapper. Retrieved June 2024 from <https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/>

(2) USFWS coastal barrier mapper <http://www.fws.gov/cbra/Maps/Mapper.html>

The Proposed Project is not located in or near coastal resources. Therefore, no coastal resources will be impacted by Proposed Project or the No Action Alternative.

#### **(E) DOT Section 4(f) and 6(f)**

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##### Factors to consider:

- (1) Impacts to parks, national forest, wildlife refuge, or other recreational areas
- (2) Impacts to Section 106 resources
- (3) Constructive use impacts from noise
- (4) Impacts to Section 6(f) Lands

##### Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
- (2) Land and Water Conservation Fund. <https://lwcf.tplgis.org/mappast/>

There are no Section 4(f) resources in or near the study area.

#### **Affected Environment**

The study area does not contain nor is it close to any Section 4(f) or 6(f) resources.

#### **Environmental Consequences**

##### ***No Action Alternative***

The No Action Alternative will have no effect on any Section 4(f) or 6(f) resources.

##### ***Proposed Project***

The Proposed Project will have no effect on any Section 4(f) or 6(f) resources.

#### **(F) Farmland**

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##### Factors to consider:

- (1) Impacts to farmlands considered to be prime, unique, or statewide and locally important
- (2) Farmlands include pasturelands, croplands, and forest (even if zoned for development)

Note: In certain cases, airport owned land may be considered farmland.

##### Resources:

- (1) NRCS/USDA AD 1006 Form:  
[http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1045394.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045394.pdf)
- (2) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

#### **Affected Environment**

According to the NRCS web soil survey data, the project study area does not contain any prime farmland.

### **Environmental Consequences**

#### ***No Action Alternative***

The No Action Alternative will have no effect on any farmland resources.

#### ***Proposed Project***

The Proposed Project will have no effect on any farmland resources.

### **(G) Hazardous Materials, Solid Waste, and Pollution Prevention**

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#### **Factors to consider:**

- (1) Impacts or removal of hazardous materials/waste from existing sites or facilities
- (2) Use of hazardous materials for new construction
- (3) Impacts to solid waste facilities from construction and post-construction activities
- (4) Use of pollution prevention activities, plans, programs, or policies

#### **Resources:**

- (1) EPA Superfund site search: <http://cumulis.epa.gov/supercpad/cursites/srchsites.cfm>
- (2) EPA hazardous waste cleanup sites: <http://www.epa.gov/cleanups/cleanups-my-community>
- (3) EPA solid waste generation: <http://www3.epa.gov/epawaste/conserve/imr/cdm/pubs/cd-meas.pdf>
- (4) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

### **Affected Environment**

The study area was reviewed for the presence of hazardous materials. The Proposed Project would not include generation of hazardous waste or the use of fuel storage tanks. Federal, state, and/or local statutes and regulations may apply.

### **Environmental Consequences**

#### ***No Action Alternative***

The No Action Alternative will have no effect on any hazardous materials.

#### ***Proposed Project***

The Proposed Project will have no effect on any hazardous materials resources; however, the use of small fuel containers may be used for refueling of chainsaw equipment.

## **(H) Historical, Architectural, Archeological, and Cultural Resources**

---

### Factors to consider:

- (1) Impacts to above and below ground resources
- (2) Indirect impacts from light emissions, vibration, and noise
- (3) Impacts to viewshed from construction or removal of buildings, trees, and other objects

Note: Obtain FAA concurrence before completing any of the following: (1) Initiating formal Section 106 proceedings (2) Coordinating the APE or determination of effects (3) Consulting with THPOs.

Note: "Previously disturbed" terrain does not necessarily exclude the project from Section 106

### Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
- (2) NPS NRHP database: <http://www.nps.gov/nr/research/>
- (3) NC GIS historic sites: <http://gis.ncdcr.gov/hpoweb/>

Note: These databases do not feature all known or potential sites.

### **Affected Environment**

There are no resources 50 years or older within the viewshed of the Proposed Project. No sites are listed on the NRHP. Refer to Appendix C for cultural resources information.

### **Environmental Consequences**

#### ***No Action Alternative***

The No Action Alternative will have no effect on any historical, architectural, archaeological, and cultural resources.

#### ***Proposed Project***

The Proposed Project will have no direct or indirect impacts to historic or archaeological sites listed on or eligible for listing on the NRHP.

Consultation with the SHPO concurred with the finding of no historic properties affected due to direct impacts. A response letter was received from SHPO, dated October 8, 2025 (**Appendix C**).

If construction work uncovers buried archeological materials, work will be halted in the area of discovery and SHPO and the FAA Project Manager will be immediately notified.

## **(I) Land Use**

---

### Factors to consider:

- (1) Impacts to existing and/or planned land uses or zoning
- (2) Compatibility with airport design standards such as RPZs

- (3) Consistency with local public agencies
- (4) Creation of wildlife attractants

Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

**Affected Environment**

The direct study area is approximately 8.93 acres in size and is located on and off airport-owned property. The airport property currently functions in aeronautical use and off-airport land uses are residential and commercial. No changes in zoning or land uses are planned within the direct study area.

**Environmental Consequences**

***No Action Alternative***

The No Action Alternative will have no effect on land uses.

***Proposed Project***

The Proposed Project will have no effect on land uses within the project area.

**(J) Natural Resources and Energy Supply**

---

Factors to consider:

- (1) Impacts on fuel, electricity, gas, water, wood, asphalt, aggregate, and other construction material supplies
- (2) Impacts from construction as well as post-construction and maintenance activities

Resources:

- (1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

**Affected Environment**

The study area is serviced by local utility providers.

**Environmental Consequences**

***No Action Alternative***

The No Action Alternative will have no effect on land uses.

***Proposed Project***

The Proposed Project will have no effect on the use of natural resources or energy supplies within the project area. No impacts on fuel, electricity, gas, water, wood, and other resources will occur as a result of the Proposed Project.



## **(K) Noise and Compatible Land Use**

---

### Factors to consider:

- (1) Impacts to non-compatible land uses and local land use standards
- (2) Changes in operational activity, fleet mix, flight tracks, or engine runups
- (3) Modeling requirements.

### Resources:

- (1) FAA 5050.4B Desk Reference noise section:  
[http://www.faa.gov/airports/environmental/environmental\\_desk\\_ref/media/desk-ref-chap17.pdf](http://www.faa.gov/airports/environmental/environmental_desk_ref/media/desk-ref-chap17.pdf)
- (2) FAA noise/land use compatibility chart: [http://www.ecfr.gov/cgi-bin/text-idx?SID=1ae7ac2b63580049ff71cc00a57ce7fa&mc=true&node=ap14.3.150\\_135.a&rgn=div9](http://www.ecfr.gov/cgi-bin/text-idx?SID=1ae7ac2b63580049ff71cc00a57ce7fa&mc=true&node=ap14.3.150_135.a&rgn=div9)
- (3) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

### **Affected Environment**

A noise analysis is not deemed necessary as the Proposed Project will not result in any changes in aircraft operations, nighttime operations, runway use, or aircraft fleet mix during construction or after the project is completed.

### **Environmental Consequences**

#### ***No Action Alternative***

The No Action Alternative will have no effect on land uses.

#### ***Proposed Project***

Temporary construction noise (chainsaws and heavy trucks) may affect adjacent landowners during tree cutting, which is anticipated to be for short durations.

## **(L) Socioeconomics, Children's Environmental Health and Safety Risks**

---

### Factors to consider:

- (1) Impacts from property acquisition and/or relocation of displaced persons/businesses
- (2) Impacts to population, economic activity, employment, income, public services, transportation networks, and planned development
- (3) Impacts to children

### Resources:

- (1) Census Bureau fact finder: <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>
- (2) Bureau of Economic Analysis: <http://www.bea.gov/>
- (3) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1G

## **Affected Environment**

There are no schools, daycares, parks, or children's health clinics surrounding the study area. However, trees located within the direct study area associated with the Runway 7 approach are located within residential yards.

## **Environmental Consequences**

### ***No Action Alternative***

The No Action Alternative will have no effect on land uses.

### ***Proposed Project***

The Proposed Project does not include property acquisition or relocations. No impacts to economic activity, employment, planned development, and other socio-economic factors are anticipated.

## **(M)Visual Effects (including light emissions)**

---

### Factors to consider:

- (1) Impacts to residential areas, Section 106 resources, Section 4(f) properties, protected coastal areas and rivers, scenic roads/byways, scenic trails, and sensitive wildlife species
- (2) Impacts from new construction or modification
- (3) Impacts from object removal (e.g. trees, buildings, etc.)

Resources: (none)

## **Affected Environment**

Visual effects associated with the Proposed Project take into account light emissions and visual resources and character. The Proposed Project includes installation of obstruction lighting on a utility pole. Lighting will be installed according to Advisory Circular (AC) 70/7460-1 and the National Electric Code (NEC). No other obstruction lighting is included in the Proposed Project. There are several residences located along Trooper Lane within close proximity to the utility pole to be lighted. Trooper Lane has a streetlight near its terminus.

## **Environmental Consequences**

### ***No Action Alternative***

The No Action Alternative will have no visual effects on adjacent residential properties.

### ***Proposed Project***

There are six residences in close proximity to the Proposed Project that have direct views of the trees to be removed. Some trees will remain within the viewshed of these residences. All of these residential structures were constructed between 1995 and 2006. The one utility pole on

the RW 7 end that will receive obstruction lighting, will be in the viewshed of the three adjacent residences located along Trooper Lane; however, Trooper Lane is already lighted by a streetlight. Therefore, no light emission impacts are anticipated.

## **(N) Water Resources**

---

### Factors to consider:

- (1) Impacts to floodplains, wetlands, surface waters, groundwater, and wild and scenic rivers
- (2) Impacts to jurisdictional and non-jurisdictional wetlands
- (3) Impacts from increased stormwater runoff
- (4) Changes in hydrologic patterns
- (5) Impacts to ground water recharge capability and drinking water supplies
- (6) Impacts from sedimentation, petroleum/chemical/hazmat spills, or other factors causing water quality degradation
- (7) Impacts to NRI listed rivers, river segments, or study rivers

### Resources:

- (1) FEMA Flood Map Service Center: <https://msc.fema.gov/portal>
- (2) USGS National Map: <http://viewer.nationalmap.gov/viewer/>
- (3) USFWS National Wetland Inventory: <http://www.fws.gov/wetlands/Data/Mapper.html>

**Note: The NWI is not considered an official wetland delineation.**

- (4) NPS National River Inventory: <http://www.nps.gov/ncrc/programs/rtca/nri/index.html>
- (5) National Wild and Scenic River's website <http://www.rivers.gov/map.php>
- (6) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

### **Affected Environment**

The study area is located with Morgan County within the 12-digit Hydrologic Unit Code (HUC) Pleasant Run-Licking River watershed (051001010506). The nearest groundwater wells are located along the Licking River approximately 0.25 mile to the northwest. The study area is underlain by the Pennsylvania Formation. No public water supplies or sole source aquifers were identified in the study area

The study area was assessed for the presence of any wetlands, surface water resources, floodplains, and groundwater resources (see **Appendix D**). There are no floodplains, USGS mapped streams, USFWS NWI features, NRI, and NWSR resources present within the study area. FEMA-mapped Zone A floodplains are located within close proximity to, but outside the project area.

A wetland delineation was completed for the study area and is located in **Appendix D**. No wetlands were identified within the study area. One ephemeral to intermittent drainage feature was identified within the study area; however, it will not be impacted. The US Army Corps of Engineers (USACE) provided initial feedback in August, 2025; however, they do not provide jurisdictional determinations for projects with no impacts.

## **Environmental Consequences**

### ***No Action Alternative***

The No Action Alternative will have no effects on wetlands, streams, or groundwater resources.

### ***Proposed Project***

The Proposed Project does not include fill placement and hand cutting of trees; therefore, the one ephemeral to intermittent drainage feature identified within the study area will not be impacted. The Proposed Project is not anticipated to impact any groundwater aquifers as no ground disturbance is included.

## **(O) Permits and Certifications**

---

List all permits and certifications required to be obtained.

No permits are required for tree removal as there is no ground disturbance proposed.

Tree clearing shall occur in the winter months (November 16 – March 31).

## **(P) Mitigation**

---

Describe mitigation required as part of the project. Include mitigation cost and when/where mitigation will occur. Do not include best management practices (BMPs).

No mitigation is required.

## **(Q) Public Involvement**

---

List agencies and organizations that reviewed the Proposed Project.

Discuss additional public involvement projects taken. Please include the name and date(s) of newspaper publications. Attach affidavit or tear sheet.

The following agencies were consulted during the development of this environmental document.

- Kentucky Heritage Council (KHC) – Response received October 8, 2025
- Kentucky Office of State Archaeology (KOSA) – Response received August 22, 2025

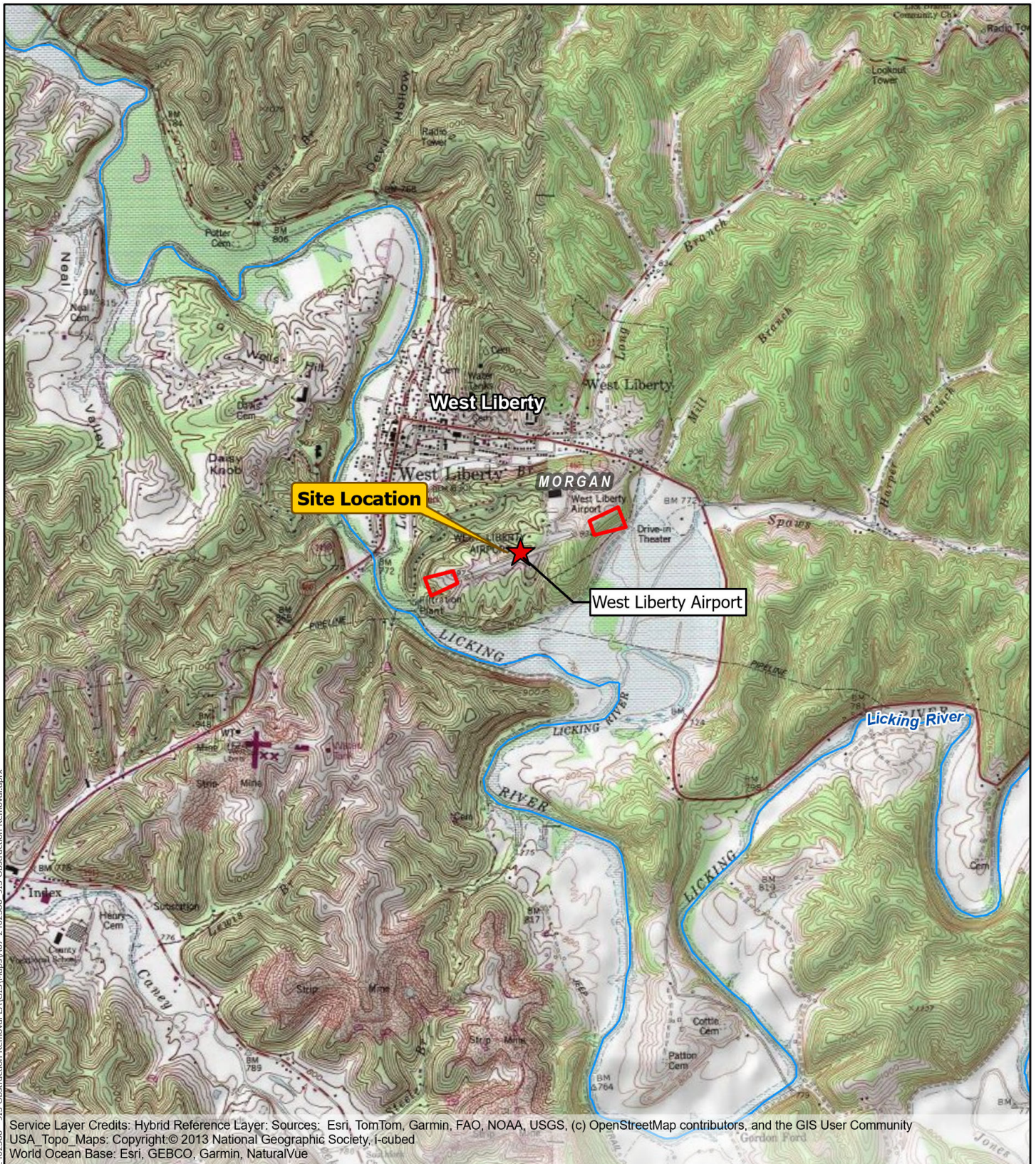
- U.S. Army Corps of Engineers (USACE) – Initial response received August 7, 2025
- U.S. Fish and Wildlife Service (USFWS) – Concurrence received May 1, 2026.
- Kentucky Energy and Environment Cabinet, Office of Kentucky Nature Preserves – Initial responses received May 29, 2025
- Kentucky State e-Clearinghouse – Response received June 17, 2025

Landowner access request letters were sent to the potentially affected landowners in July 2025. Additionally, certified landowner coordination letters were sent to potentially affected landowners in early January 2026 to provide advance notice of the project that their respective properties may be affected by the Proposed Project. Refer to **Appendix E**.

# **APPENDIX A**

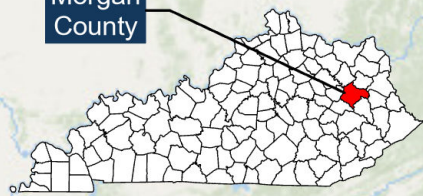
## **Site Location Map & Project Layout Exhibits**





Service Layer Credits: Hybrid Reference Layer: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community  
USA Topo Maps: Copyright© 2013 National Geographic Society, i-cubed  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

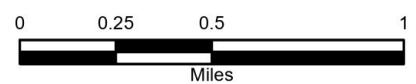
Morgan  
County



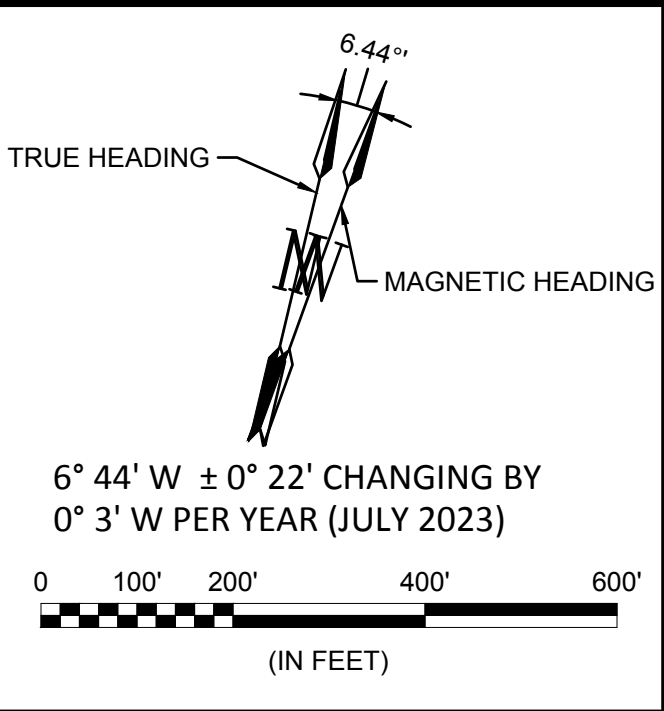
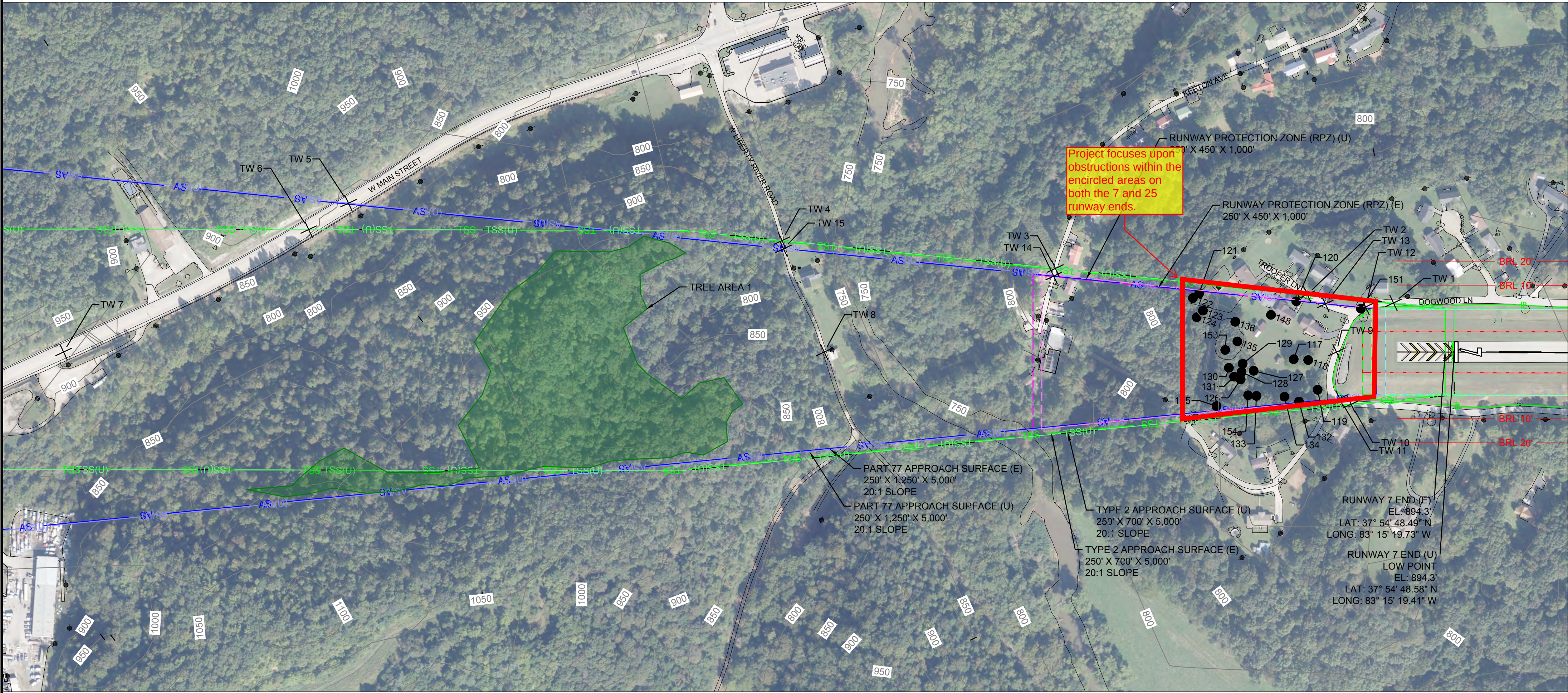
- ★ Site Location
- APE/Direct Study Area

## APPENDIX A - SITE LOCATION MAP

### West Liberty Airport (9I3) Runway 7-25 Obstruction Removal



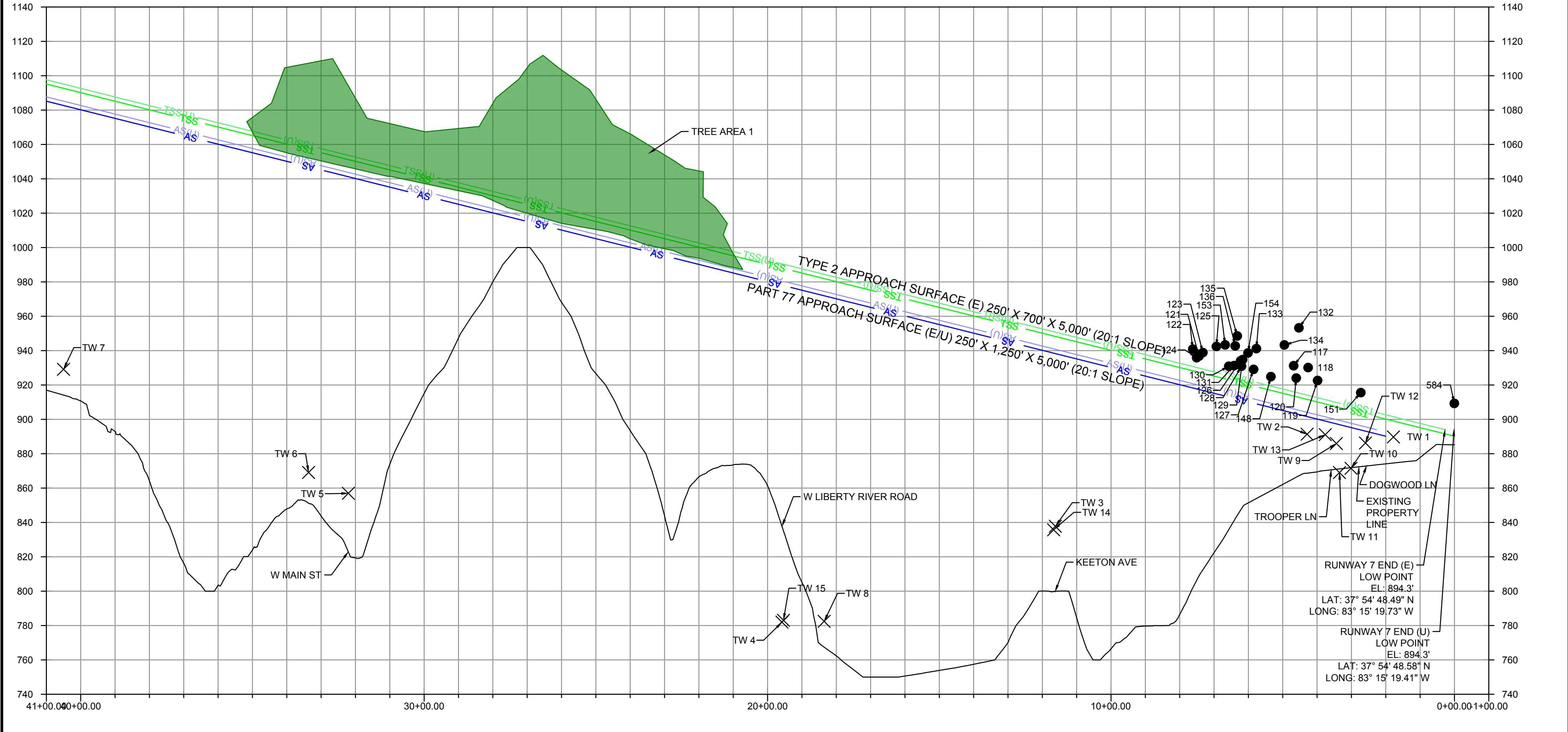




- NOTES:
1. VERTICAL EXAGGERATION IS 5' IN THE PROFILE.
  2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
  3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
  4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
  5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
  6. TW STAND FOR TRAVERSE WAY.
  7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 501 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
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| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



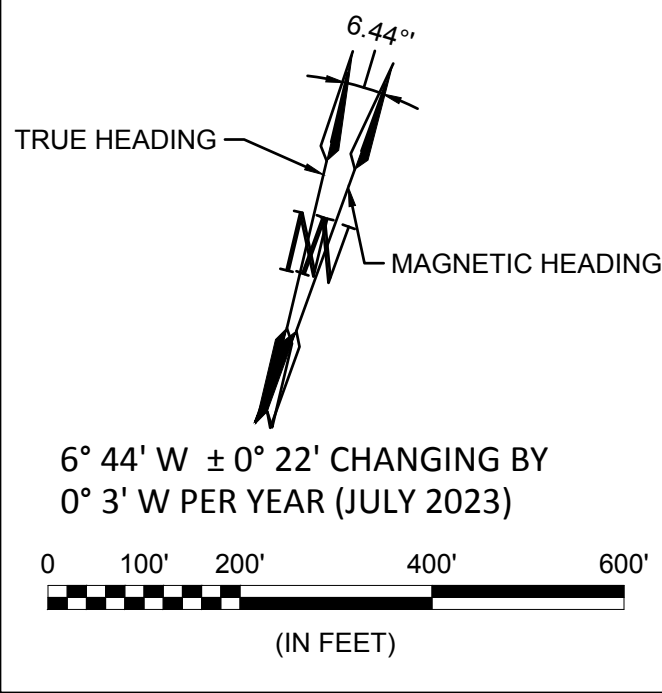
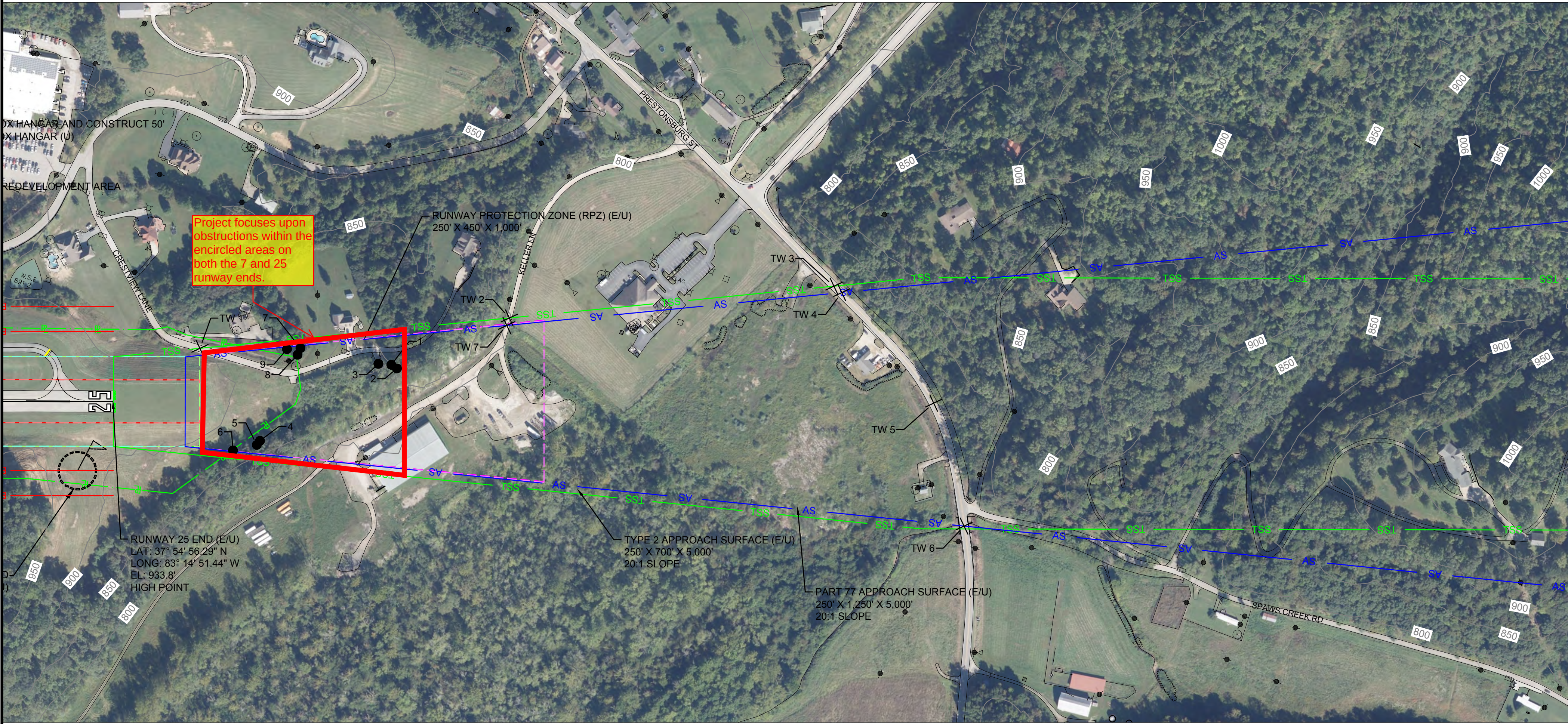
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|------------------------------------------|----------|----------|
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| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

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Last plotted by: Littrell, Jacob J. Plot Date: 8/14/2023 3:35 PM Plotter used: AutoCAD PDF (General Documentation).pc3

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| BY                                                                                                        |  |  |  |  |
| DESCRIPTION                                                                                               |  |  |  |  |
| DATE                                                                                                      |  |  |  |  |
| REV                                                                                                       |  |  |  |  |
| WEST LIBERTY AIRPORT<br>WEST LIBERTY, KENTUCKY                                                            |  |  |  |  |
| Inner Portion of<br>Approach Surface<br>Drawing 7                                                         |  |  |  |  |
| JOB NO.: 21A14220<br>DATE: AUGUST 2023<br>DESIGNED BY: NRP<br>DRAWN BY: J.L.                              |  |  |  |  |
| BAR IS ONE INCH ON ORIGINAL DRAWING<br>0" 1"<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |  |  |  |  |
| APPENDIX A - PROJECT<br>LAYOUT EXHIBIT (RW 7 END)                                                         |  |  |  |  |
| SHEET<br>NUMBER                                                                                           |  |  |  |  |



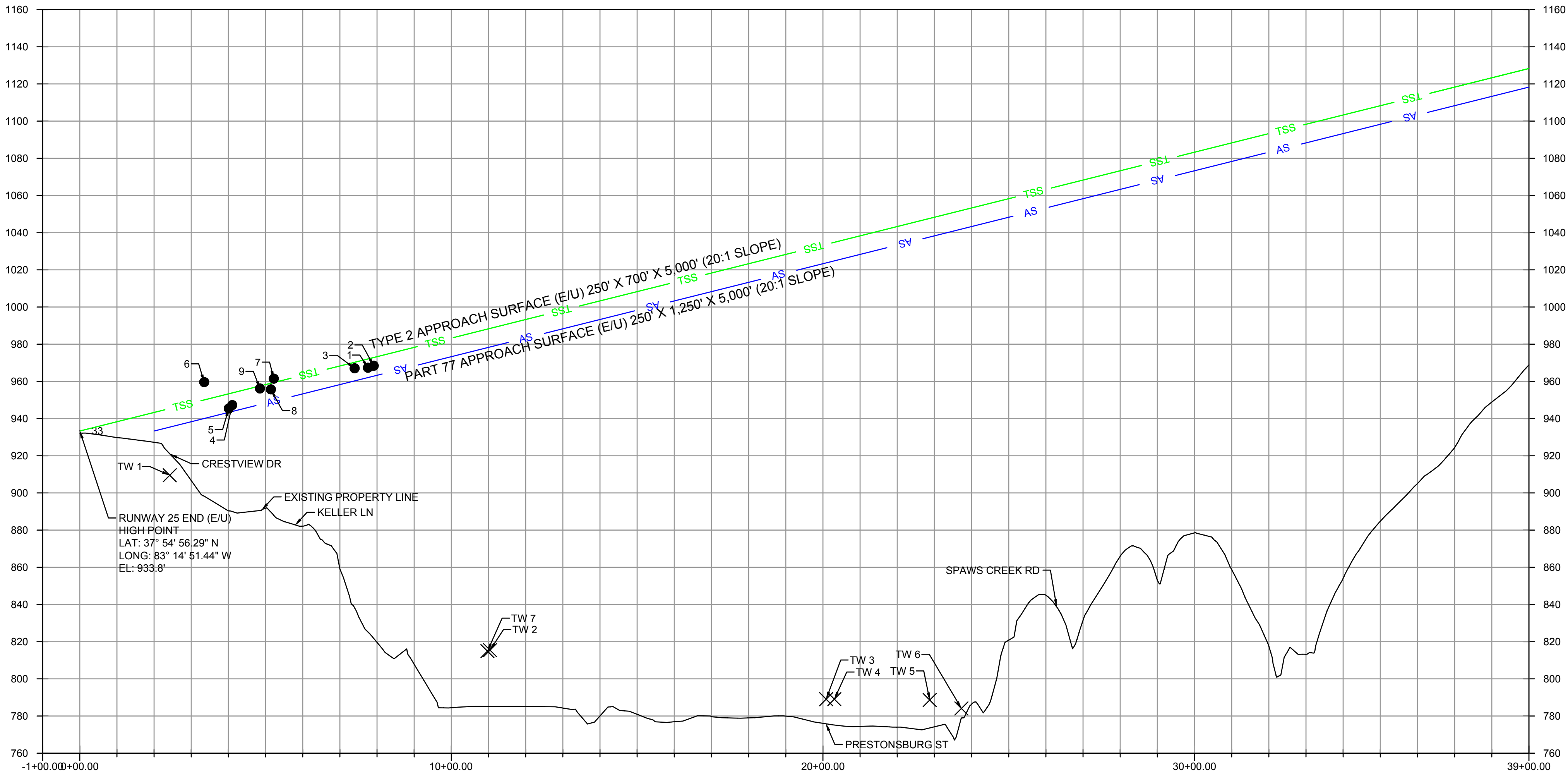


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- NOTES:
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| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY SAFETY AREA (RSA)                 |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT  
LAYOUT PLAN

Inner Portion of  
Approach Surface  
Drawing 25

JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

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ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET,  
ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT  
LAYOUT EXHIBIT  
(RW 25 END)

SHEET  
NUMBER



# **APPENDIX B**

## **Biological Resources (Federal and State Listed Species Lists) And Agency Coordination**



2049 E. Joyce Blvd.  
Suite 400  
Fayetteville, AR 72703  
TEL 479.527.9100  
FAX 479.527.9101  
[www.GarverUSA.com](http://www.GarverUSA.com)

---

October 15, 2025

Lopa Naik  
[Lopa.Naik@faa.gov](mailto:Lopa.Naik@faa.gov)

Re: 9I3 Runway 7-25 Obstruction Removal  
West Liberty Airport (9I3), West Liberty, Kentucky  
USFWS IPaC Consultation Code: 2025-0104398

Ms. Naik,

A National Environmental Policy Act (NEPA) Environmental Assessment (EA) is being prepared to address the potential environmental impacts associated with a Runway 7-25 Obstruction Removal project at the West Liberty Airport in West Liberty, Kentucky (**Figure 1**). The EA will be submitted to the Federal Aviation Administration (FAA) for review and approval. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in attached Layout Plan. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade. Lights will be affixed to the top of utility structures that cannot be removed. The proposed project area is shown on the attached maps, and obstruction removal will be completed between February 1, 2027 and March 30, 2027.

This letter serves to provide information on the occurrence of suitable habitat for the federally protected threatened or endangered species listed on the IPaC project planning tool (attached) for the 9I3 Runway 7-25 Obstruction Removal project located at the airport. A limited site investigation of the study area was conducted on August 7, 2025, and included areas where tree removal may occur (see attached Layout Plan). This habitat assessment did not include official surveys for, or reveal evidence of, federally listed species during the site investigation.

### **Habitat Overview**

The study area, where trees are proposed for removal, is located within private and airport owned parcels and contains steep wooded slopes, residential yards, and other maintained grass areas. The approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures) consists of 3.5 acres of trees with the remainder as grass areas and built infrastructure including buildings and roadways. Observed vegetation included white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipifera*), dogwood (*Cornus* species), hornbeam (*Carpinus caroliniana*), sugar maple (*Acer saccharum*), and Christmas fern (*Polystichum acrostichoides*). Three homes, three outbuildings, and one business is located in the study area. No impacts will occur to these structures.

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (**Figure 2**). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks characterized by lack of vegetation

and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

Refer to **Table 1** for federally listed species, habitat requirements, and effects determinations identified for this project. **Figure 2** depicts the study area and potential habitat present.

**Table 1. Federally Listed Species and Habitat Requirements**

| Species/Status                                                                    | Habitat Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Suitable Habitat within Direct Study Area (SA)                                                                                                                      | Preliminary Effect Determination            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Gray Bat</b><br>( <i>Myotis grisescens</i> )<br>Endangered                     | The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.                                                                                                                                                                                                                                                                                                                                   | No caves, mines, or tunnels are within the study area.                                                                                                              | No Effect                                   |
| <b>Indiana Bat</b><br>( <i>Myotis sodalis</i> )<br>Endangered                     | The Indiana Bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.                                                                                                                                                                                                                                                                               | Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.                                 | May Affect, Not Likely to Adversely Affect  |
| <b>Northern Long-eared Bat</b><br>( <i>Myotis septentrionalis</i> )<br>Endangered | In winter, northern long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. During the summer they roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees.                                                                                                                                                                                                                                                | Rock bluffs are within the project area. Trees to be removed are mature and may provide suitable summer roosting habitat.                                           | May Affect, Not Likely to Adversely Affect  |
| <b>Tricolored Bat</b><br>( <i>Perimyotis subflavus</i> )<br>Proposed Endangered   | In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needles attached to living trees. They commonly forage along riparian corridors. Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats. | No caves were observed within or near the project site. Forest with mature trees do exist in the study area while riparian corridors do adjacent to the study area. | Will not jeopardize the continued existence |



| Species/Status                                                                                                                            | Habitat Requirements                                                                                                                                                                                                                                                                                 | Suitable Habitat within Direct Study Area (SA)                                                                                                     | Preliminary Effect Determination                                |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Virginia Big-eared Bat</b><br>( <i>Corynorhinus</i><br>[= <i>Plecotus</i> ]<br><i>townsendii</i><br><i>virginianus</i> )<br>Endangered | Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.                                                                                                                                                                                             | No caves are located in the study area.                                                                                                            | May Affect,<br>Not Likely to Adversely Affect                   |
| <b>Eastern Hellbender</b><br>( <i>Cryptobranchus alleganiensis alleganiensis</i> )<br>Proposed<br>Endangered                              | Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.                                           | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | Not likely to jeopardize the continued existence of the species |
| <b>Pink Mucket</b><br>( <i>Lampsilis abrupta</i> )<br>Endangered                                                                          | The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.                                                                                                                                                                                                             | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | No Effect                                                       |
| <b>Salamander Mussel</b><br>( <i>Simpsonaias ambigua</i> )<br>Proposed<br>Endangered                                                      | The salamander mussel inhabits fast moving rivers under large flat rocks,                                                                                                                                                                                                                            | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | Not likely to jeopardize the continued existence of the species |
| <b>Snuffbox Mussel</b><br>( <i>Epioblasma triquetra</i> )<br>Endangered                                                                   | The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave action.                                                                                                                                                                                | The ephemeral to intermittent stream in the study area does not have the hydrologic regime to support the snuffbox mussel.                         | No Effect                                                       |
| <b>Monarch Butterfly</b><br>( <i>Danaus plexippus</i> )<br>Proposed<br>Threatened                                                         | Monarch butterflies require the presence of milkweed ( <i>Asclepias</i> sp.), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands. | Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area. | Not likely to jeopardize the continued existence of the species |

The photographs below show the typical habitats observed within the study area.



Photo 1 – View of OW1. Downstream is to the right (southwest).



Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.



Photo 4 – View to the southwest of the Runway 7 end study area forested areas.





Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 7 – View of the vegetation near trees 4, 5, and 6 within the Runway 25 end study area as shown in the Plan Layout. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, Nepalese browntop, deertounge, and sumac.



Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 as shown in the Plan Layout.



October 15, 2025  
Page 6 of 6

This information is to document habitat within the study area. We respectfully request your concurrence with these findings. Thank you for your assistance and please call me (479-879-9746) or email (JCMarshall@GarverUSA.com) if you have any questions or need any additional information.

Sincerely,  
GARVER, LLC

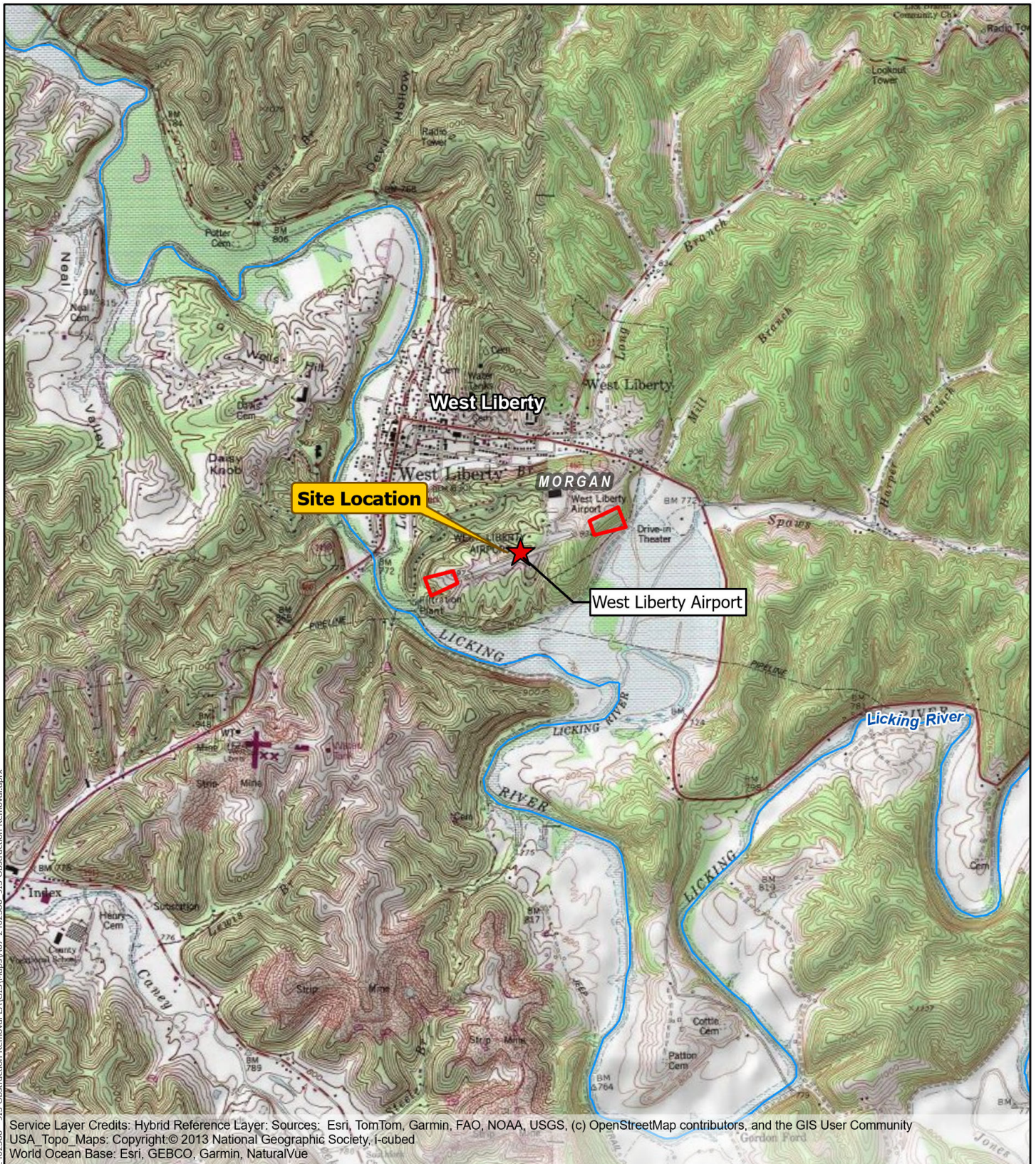


Colby Marshall  
Environmental Scientist

Copies To: Ryan Mountain, PWS - Garver

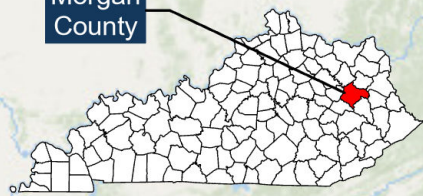
Enclosures: Figure 1 - Site Location Map  
Figure 2 - Habitat Overview Map  
Layout Plan  
IPaC Official Species List  
USFWS Technical Assistance Letters





Service Layer Credits: Hybrid Reference Layer: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community  
USA Topo Maps: Copyright© 2013 National Geographic Society, i-cubed  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

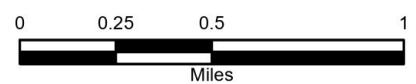
Morgan  
County



- ★ Site Location
- APE/Direct Study Area

## APPENDIX A - SITE LOCATION MAP

### West Liberty Airport (9I3) Runway 7-25 Obstruction Removal





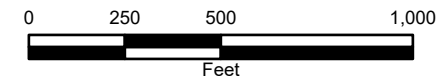


Morgan  
County

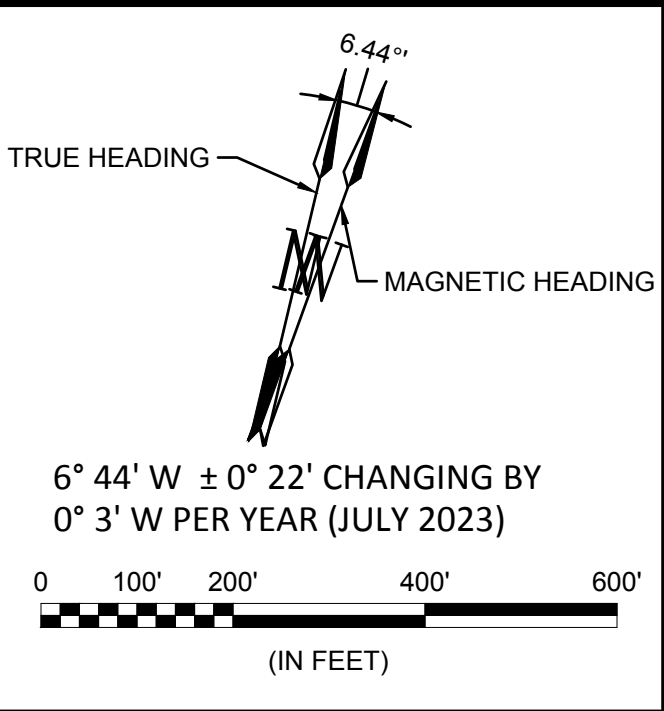
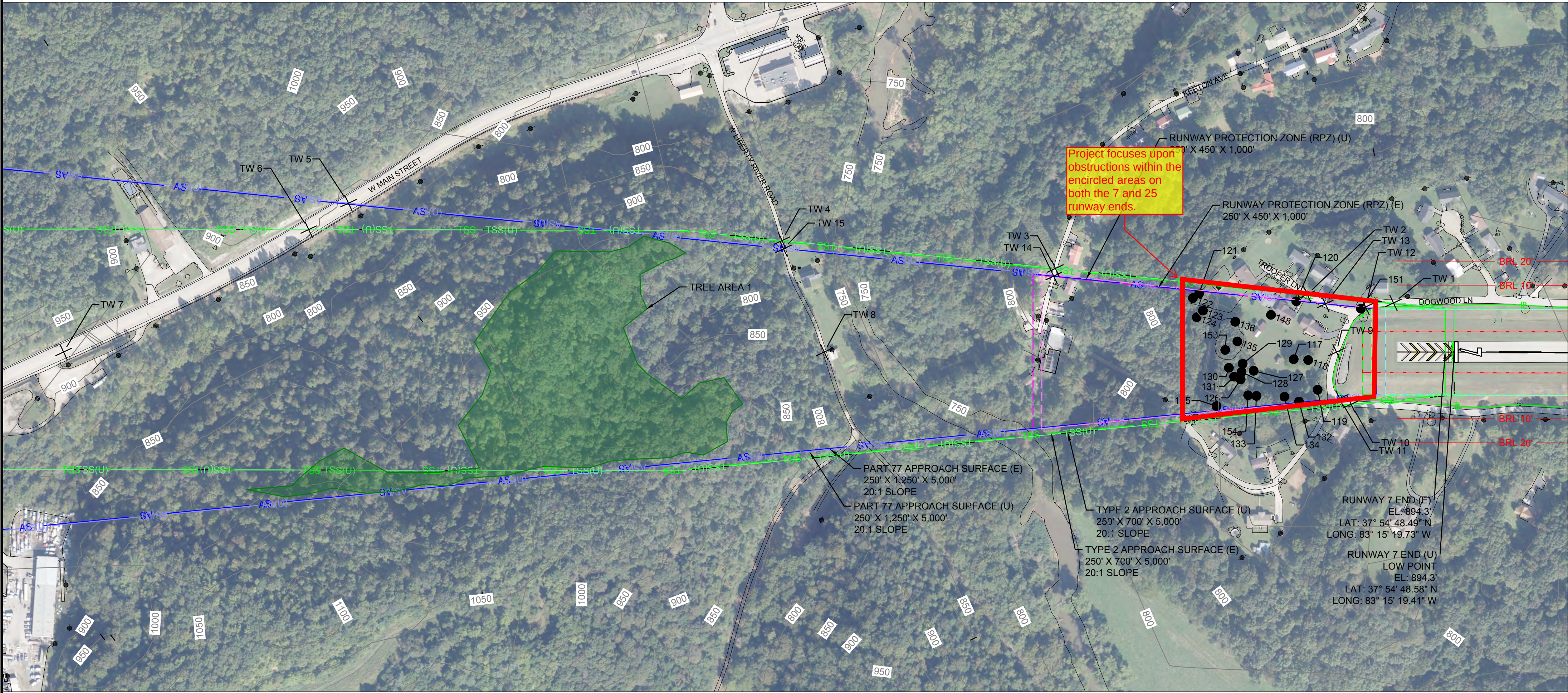
-  Direct Study Area
-  Tree Area
-  Stream

**Figure 2: Habitat Map**

**913 Obstruction Removal  
Morgan County, Kentucky**







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- NOTES:
- VERTICAL EXAGGERATION IS 5' IN THE PROFILE.
  - OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
  - FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
  - ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
  - TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
  - TW STAND FOR TRAVERSE WAY.
  - NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 501 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

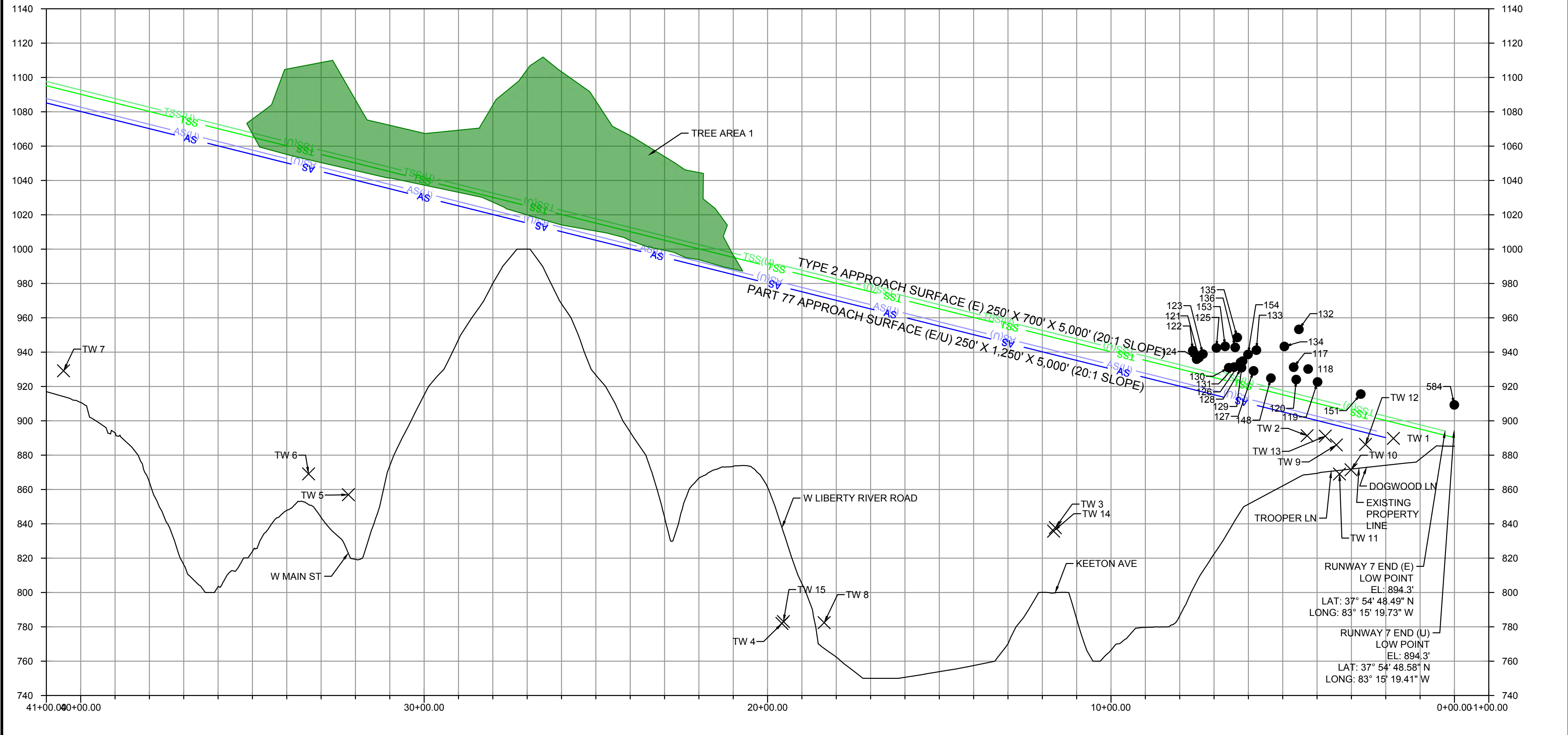
AIRPORT SPONSOR BLOCK

CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR

TITLE: AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FEDERAL AVIATION ADMINISTRATION  
APPROVAL BLOCK



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

| BY | DESCRIPTION | DATE | REV |
|----|-------------|------|-----|
|    |             |      |     |
|    |             |      |     |
|    |             |      |     |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

Inner Portion of  
Approach Surface  
Drawing 7

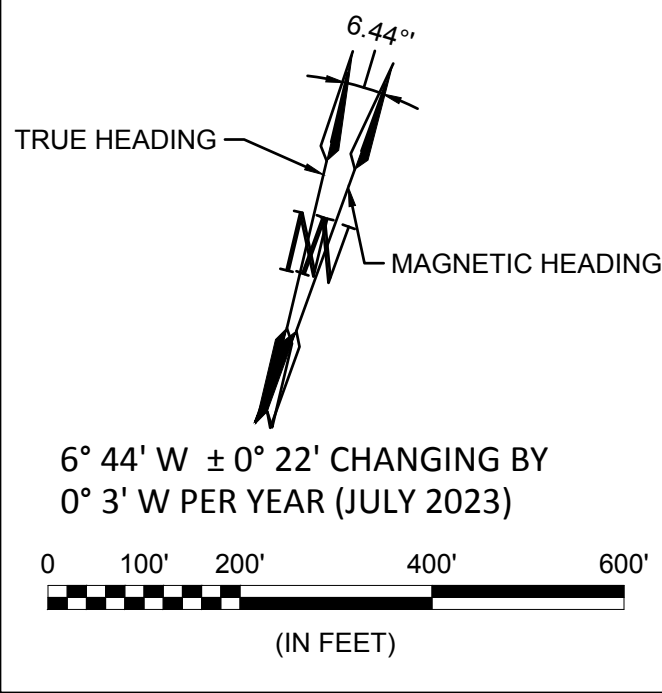
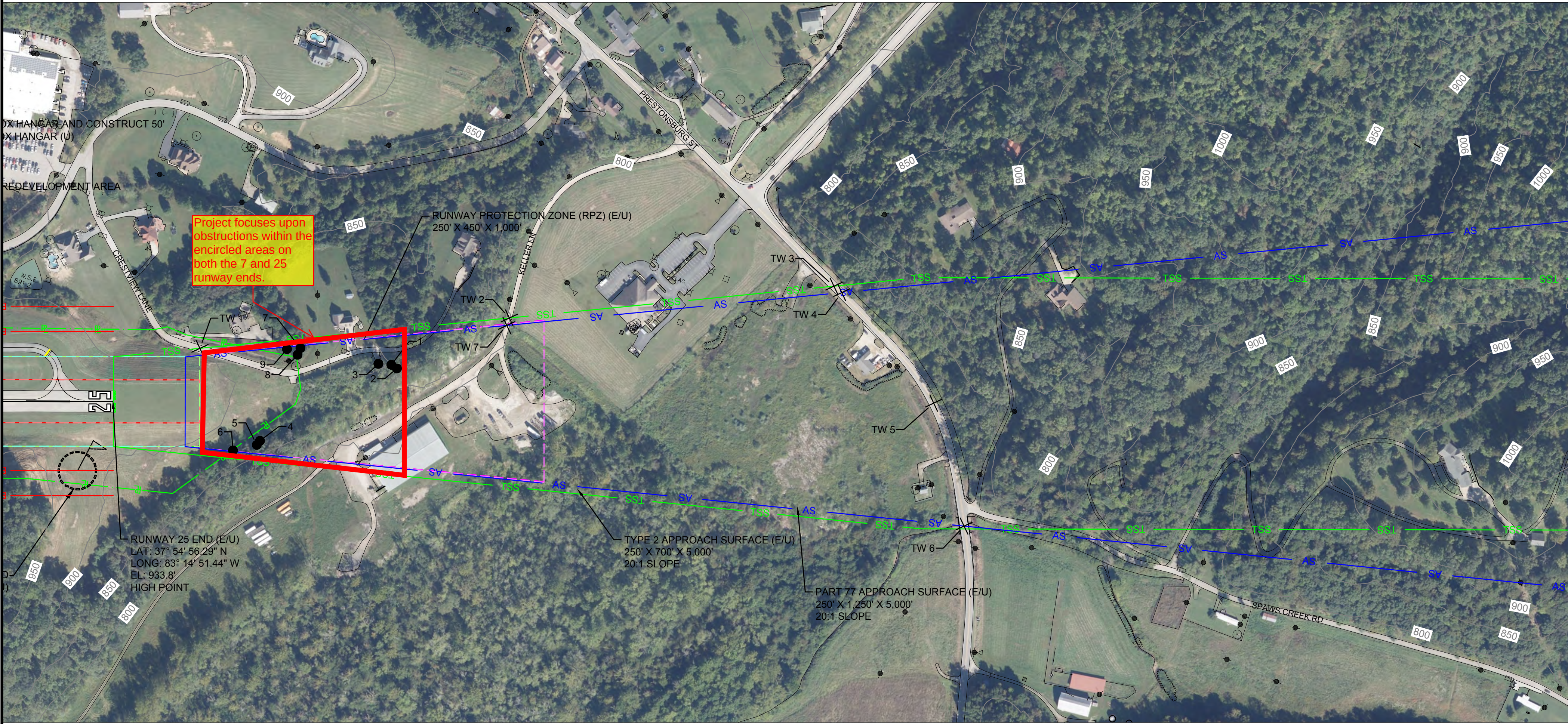
JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

BAR IS ONE INCH ON  
ORIGINAL DRAWING  
1"  
IF NOT ONE INCH ON THIS SHEET,  
ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT  
LAYOUT EXHIBIT (RW 7 END)

SHEET  
NUMBER





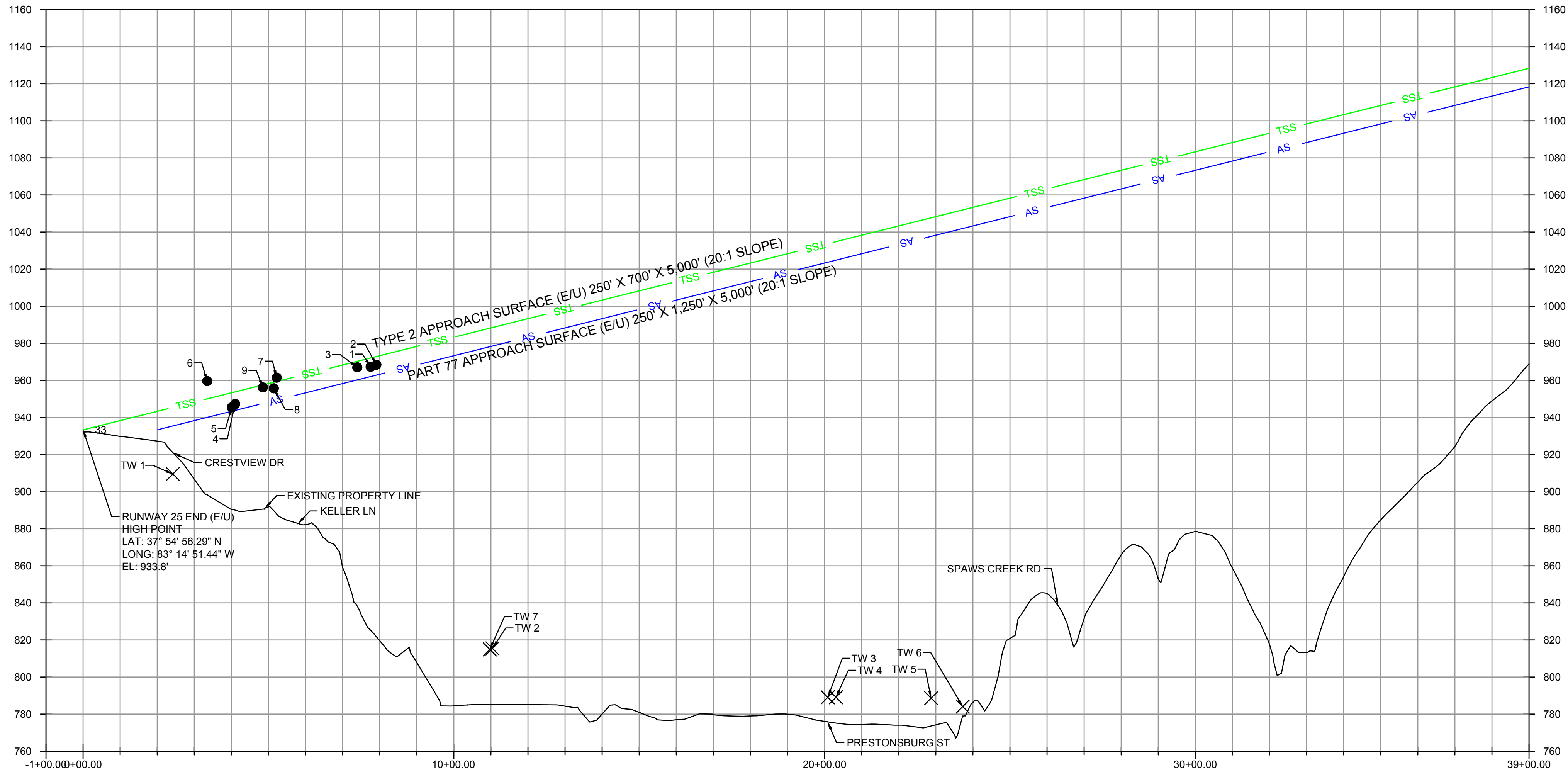
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  6. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

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|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
| TITLE: AIRPORT SPONSOR'S REPRESENTATIVE                                                          |      |
| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY SAFETY AREA (RSA)                 |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT  
LAYOUT PLAN

Inner Portion of  
Approach Surface  
Drawing 25

JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

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APPENDIX A - PROJECT  
LAYOUT EXHIBIT  
(RW 25 END)

SHEET  
NUMBER





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

01/09/2026 18:27:36 UTC

Project Code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the



human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do..>

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.



Attachment(s):

- Official Species List

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Kentucky Ecological Services Field Office**

J C Watts Federal Building, Room 265

330 West Broadway

Frankfort, KY 40601-8670

(502) 695-0467



## PROJECT SUMMARY

Project Code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Project Type: Airport - Maintenance/Modification

Project Description: West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91601645,-83.24591495925029,14z>



Counties: Morgan County, Kentucky

## ENDANGERED SPECIES ACT SPECIES

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.



## MAMMALS

| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | STATUS                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>Gray Bat <i>Myotis grisescens</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a></p> <p>General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                                                                                                                          | Endangered             |
| <p>Indiana Bat <i>Myotis sodalis</i></p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p>This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> <li>▪ The project area includes 'potential' habitat. All activities in this location should consider possible effects to this species.</li> </ul> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a></p> <p>General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p> | Endangered             |
| <p>Northern Long-eared Bat <i>Myotis septentrionalis</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a></p> <p>General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                                                                                                      | Endangered             |
| <p>Tricolored Bat <i>Perimyotis subflavus</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Proposed<br>Endangered |
| <p>Virginia Big-eared Bat <i>Corynorhinus (=Plecotus) townsendii virginianus</i></p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/8369">https://ecos.fws.gov/ecp/species/8369</a></p> <p>General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                          | Endangered             |

## AMPHIBIANS

| NAME                                                                                                                                                                                                                                                           | STATUS                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>Eastern Hellbender <i>Cryptobranchus alleganiensis alleganiensis</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/9039">https://ecos.fws.gov/ecp/species/9039</a></p> | Proposed<br>Endangered |

## CLAMS

| NAME                                                                                                                        | STATUS     |
|-----------------------------------------------------------------------------------------------------------------------------|------------|
| <p>Pink Mucket (pearlymussel) <i>Lampsilis abrupta</i></p> <p>No critical habitat has been designated for this species.</p> | Endangered |

| NAME                                                                                                                                                                                                                                                                                                                                                            | STATUS                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Species profile: <a href="https://ecos.fws.gov/ecp/species/7829">https://ecos.fws.gov/ecp/species/7829</a><br>General project design guidelines:<br><a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf</a> |                        |
| Salamander Mussel <i>Simpsonaias ambigua</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/6208">https://ecos.fws.gov/ecp/species/6208</a>                                                                                  | Proposed<br>Endangered |
| Snuffbox Mussel <i>Epioblasma triquetra</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/4135">https://ecos.fws.gov/ecp/species/4135</a>                                                                                   | Endangered             |

## INSECTS

| NAME                                                                                                                                                                                                                                                                        | STATUS                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Monarch Butterfly <i>Danaus plexippus</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a> | Proposed<br>Threatened |

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.



## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

05/01/2026 17:53:22 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for the endangered Indiana bat and its critical habitat in the proposed project location, pursuant to the Indiana Bat Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **May 01, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' using the Indiana Bat DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

You have agreed to the following conservation measures:

- <div>All suitable Indiana bat forested habitat will be removed from October 16 - March 31.</div>

Based on your answers and the assistance of the Service's Indiana Bat DKey, you made the following effect determination(s) for the proposed Action:

| Species                               | Listing Status | Determination |
|---------------------------------------|----------------|---------------|
| Indiana Bat ( <i>Myotis sodalis</i> ) | Endangered     | NLAA          |

### Consultation Status

**Consultation with the Service is not complete.** The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Indiana Bat DKey in order to satisfy the agency's consultation requirements for this project.



Please provide this technical assistance letter to the lead federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **717-180698321**

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

In addition to the Indiana bat, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Pink Mucket (pearly mussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonia ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the "Next Steps" section of your species list letter, or you may use another determination key, if available.

### **Additional Coordination**

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office. When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

9I3 Runway 7-25 Obstruction Removal

**2. Description**

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91601645,-83.24591495925029,14z>





## QUALIFICATION INTERVIEW

1. Does the project intersect the Indiana bat species list area?

**Automatically answered**

*Yes*

2. Will the proposed action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

*Yes*

3. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

*No*

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead Federal Agency for this action?

*No*

5. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

*No*

6. Will the proposed Action involve construction or operation of a wind turbines?

*No*

7. Will the proposed Action involve blasting, other than a fireworks display?

*No*

8. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

*No*

9. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

**Note:** For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

*No*

10. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge?

*No*

11. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

*No*

12. Will the proposed Action involve discharge of sediment into a stream?

*No*

13. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

No

14. Will the proposed project result in the removal of trees?

Yes

15. Did a **FWS-approved** habitat model applicable to the project site determine the project site to be of low probability for use by Indiana bats?

**Note:** This question will most commonly be answered "no." If the answer to this question is "yes", you will be required to upload your **Habitat Model Report**

No

16. Will the proposed project result in the removal of potentially suitable summer habitat for the Indiana bat?

Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag  $\geq 5$  inches diameter at breast height (dbh) (12.7 centimeter) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet (305 meters) of other forested/wooded habitat. See the Indiana Bat and Northern Long-eared Bat Survey Guidelines for additional description (<https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>).

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

Yes

17. Does the action area intersect known Indiana bat habitat in Kentucky?

**Automatically answered**

No

18. Will the proposed Action remove any suitable (primary or alternate) Indiana bat roost trees? *Suitable Indiana bat roost trees are live trees and/or snags  $\geq 5$  inches diameter at breast height (dbh) (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows.*

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

Yes



19. Will the proposed Action remove any suitable primary roost trees?

*Suitable Indiana bat primary maternity roost tree refers to a dead tree or snag that is nine inches or greater in diameter at breast height and has loose or exfoliating bark, cracks, crevices, and/or hollows. A live tree may also qualify if it contains hollows or dead portions with loose or exfoliating bark, cracks, and/or crevices.*

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

No

**SUBMITTED DOCUMENTS**

- 9I3 Obs Rem\_Draft HA 2026-02-27.pdf <https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/projectDocuments/180698278>

20. Will the tree removal reduce the area of forest and/or create an opening in the forest canopy? *Common projects that do not create such openings are often narrow (e.g. < 12 feet wide) recreational trails through forested habitats.*

No

21. Will all suitable Indiana bat habitat forested habitat be removed from October 16 - March 31? This conservation measure would minimize impacts to Indiana bats.

**Note:** Refer to the Indiana Bat and Northern Long-eared Bat Summer Survey Guidelines, Appendix L: Bat Activity Periods (<https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>).

Yes

22. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service under the standing analyses that supports this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the Indiana bat.

What determination do you want to make for the Indiana bat:

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

*May affect – not likely to adversely affect (NLAA)*

## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

05/01/2026 17:59:28 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for specified threatened and endangered species that may occur in your proposed project location consistent with the Kentucky Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **May 01, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' (Action) using the Kentucky (DKey) within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Kentucky DKey, you made the following effect determination(s) for the proposed Action:

| Species                                                                           | Listing Status | Determination |
|-----------------------------------------------------------------------------------|----------------|---------------|
| Gray Bat ( <i>Myotis grisescens</i> )                                             | Endangered     | No effect     |
| Pink Mucket (pearlymussel) ( <i>Lampsilis abrupta</i> )                           | Endangered     | No effect     |
| Snuffbox Mussel ( <i>Epioblasma triquetra</i> )                                   | Endangered     | No effect     |
| Virginia Big-eared Bat ( <i>Corynorhinus (=Plecotus) townsendii virginianus</i> ) | Endangered     | NLAA          |

### Consultation Status

**Consultation with the Service is not complete.** The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Kentucky DKey in order to satisfy the agency's consultation requirements for this project.

Please provide this technical assistance letter to the lead federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **717-180700234**

If there is no federal action agency for this project, the information in this letter is provided to you as technical assistance in your planning. Species with NLAA determinations are consistent with the programmatic evaluation in the standing analysis of proposed Actions the Kentucky Ecological Services Field Office has identified that typically do not result in significant adverse effects to that species.

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the "Next Steps" section of your species list letter, or you may use another determination key, if available.

#### **Additional Coordination**

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office. When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.



**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

9I3 Runway 7-25 Obstruction Removal

**2. Description**

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91601645,-83.24591495925029,14z>



## QUALIFICATION INTERVIEW

1. Will the proposed Action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

*Yes*

2. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

*No*

3. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

*No*

4. [Hidden Semantic] Does the action area intersect critical habitat?

**Automatically answered**

*No*

5. Will the proposed Action involve construction or operation of wind turbines?

*No*

6. Will the proposed Action involve blasting (other than a fireworks display)?

*No*

7. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

*No*

8. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g. leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

*No*

9. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge or culvert?

*No*

10. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

*No*

11. Will the proposed Action involve discharge of sediment into a stream?

*No*

12. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

*No*



13. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the gray bat?

**Automatically answered**

Yes

14. Will the proposed Action involve drilling or boring?

No

15. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the gray bat.

What is your effect determination for the **gray bat**?

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. "No effect"

16. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the Virginia big-eared bat?

**Automatically answered**

Yes

17. Will the proposed Action involve activities that occur within 1,000 feet from a cliffline? A cliffline is a naturally occurring, exposed, and nearly vertical rock structure at least 10 feet tall and 100 feet long.

No

18. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the Virginia big-eared bat.

What is your effect determination for the **Virginia big-eared bat**?

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

2. "May affect - not likely to adversely affect"

19. Will the proposed Action involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds)?

No

20. Will the proposed Action include any activities that would alter stream flow, such as hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines?  
*No*
21. Will the proposed Action involve dredging or in-stream gravel mining?  
*No*
22. Will the proposed Action involve resource extraction (e.g., mining, oil/gas, logging), including exploration activities?  
*No*
23. Will the proposed Action involve stream impacts (perennial or intermittent) that would require an individual permit under 404 of the Clean Water Act?  
*No*
24. Will the proposed Action involve activities that would contribute measureable nonpoint source pollution to streams (e.g., sediment, nutrients, etc.)? *See the following EPA webpage for more examples of nonpoint source pollution and activities that can produce it: <https://www.epa.gov/nps/basic-information-about-nonpoint-source-nps-pollution>*  
*No*
25. Will the proposed Action involve new or increased use of public recreational OHV trails?  
*No*
26. Will the proposed Action disturb the channel or bank of a perennial or intermittent stream?  
*No*
27. Will the proposed Action disturb the channel or bank of an ephemeral stream?  
*No*
28. Will the proposed Action involve vegetation removal within 200 feet of a perennial stream bank?  
*No*
29. Will the proposed Action involve excavation or grading, including for the construction or improvement of an access road?  
*No*
30. [Hidden Semantic] Does the project area intersect the AOI of the snuffbox?  
**Automatically answered**  
*Yes*



31. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the snuffbox.

What determination do you want to make for the **snuffbox**:

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. "No effect"

32. [Hidden Semantic] Does the project area intersect the AOI of the pink mucket (*Lampsilis abrupta*)?

**Automatically answered**

Yes

33. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the pink mucket.

What is your effect determination for the **pink mucket**:

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. "No effect"

## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

05/01/2026 17:44:01 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Federal Nexus: yes

Federal Action Agency (if applicable): Federal Aviation Administration

**Subject:** Technical assistance for '9I3 Runway 7-25 Obstruction Removal'

Dear Garver LLC:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on May 01, 2026, for '9I3 Runway 7-25 Obstruction Removal' (here forward, Project). This project has been assigned Project Code 2025-0104398 and all future correspondence should clearly reference this number.

**Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

### **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

## Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

| Species                                                   | Listing Status         | Determination |
|-----------------------------------------------------------|------------------------|---------------|
| Northern Long-eared Bat ( <i>Myotis septentrionalis</i> ) | Endangered             | NLAA          |
| Tricolored Bat ( <i>Perimyotis subflavus</i> )            | Proposed<br>Endangered | NLAA          |

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

## Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonia ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

## Next Steps

Consultation with the Service is necessary. The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is incomplete and no project activities



should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **717-180696639**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
2. Review the answers to the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key to ensure that they are accurate.
3. Click on Review/ Finalize to convert the 'not likely to adversely affect' technical assistance letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Kentucky Ecological Services Field Office and reference Project Code 2025-0104398 associated with this Project.

**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

9I3 Runway 7-25 Obstruction Removal

**2. Description**

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91601645,-83.24591495925029,14z>





## DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

## QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

**Automatically answered**

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

**Automatically answered**

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

**Note for projects in Pennsylvania:** Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer ‘yes’ to this question.

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

**Note:** This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

**Automatically answered**

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Is the action located in New England (CT, MA, ME, NH, RI, or VT)?

No

13. Will the action cause effects to a bridge?

**Note:** Covered bridges should be considered as bridges in this question.

No

14. Will the action result in effects to a culvert or tunnel at any time of year?

No



15. Are trees present within 1000 feet of the action area? **Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#).

Yes

16. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

17. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

18. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

21. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

**Note:** For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

23. Will the proposed action involve blasting or drilling?

No

24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

No

25. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

No

26. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#).

No

27. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable forested northern long-eared bat or tricolored bat roosting habitat? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#).

No

28. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

29. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

No



30. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

*No*

31. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

**Note:** A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

*No*

32. Does the project intersect with the 0- 9.9% forest density category?

**Automatically answered**

*No*

33. Does the project intersect with the 10.0- 19.9% forest density category map?

**Automatically answered**

*No*

34. Does the project intersect with the 20.0- 29.9% forest density category map?

**Automatically answered**

*No*

35. Does the project intersect with the 30.0- 100% forest density category map?

**Automatically answered**

*Yes*

36. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

*No*

37. Will the proposed action result in the use of prescribed fire?

**Note:** If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

*No*

38. Does the action area intersect the northern long-eared bat species list area?

**Automatically answered**

*Yes*

39. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

*No*

40. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

No

41. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

**Automatically answered**

No

42. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities? If unsure, answer "Yes." **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#)

Yes

43. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's [Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

44. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags  $\geq 3$  inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#).

Yes



45. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's [Northern long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Development Projects](#).

No

46. Does the action area intersect the tricolored bat species list area?

**Automatically answered**

Yes

47. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

**Automatically answered**

No

48. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

No

49. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

50. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities? (If unsure, answer ""Yes.""") **Note:** If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

51. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' [Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines](#).

Yes

52. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's [Northern Long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Developmental Projects](#).

*No*

53. Do you have any documents that you want to include with this submission?

*No*

## PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

.3



## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



Andy Beshear  
Governor

## Energy and Environment Cabinet Office of Kentucky Nature Preserves

300 Sower Boulevard  
Frankfort, Kentucky 40601  
Telephone: 502-782-7828  
EEC.KYBAT@ky.gov

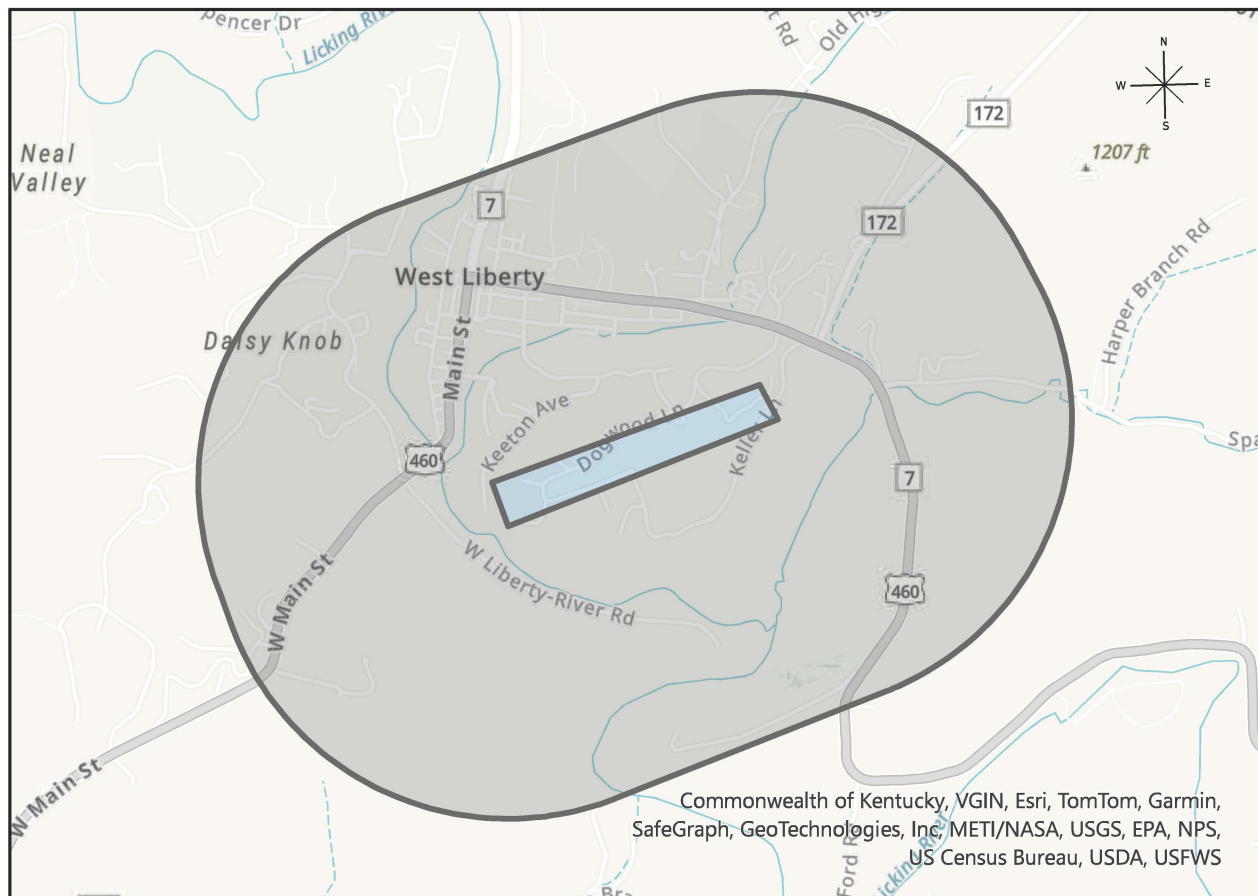
Rebecca W. Goodman  
Secretary

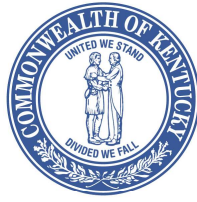
Zack Couch  
Executive Director

*Requested on Friday, August 15, 2025 by Ryan Mountain, Garver, LLC*

Re: Kentucky Biological Assessment Data Request 250815R01  
West Liberty Airport - 913 Obstruction Removal  
Timber Harvest and Vegetation Management, 1 mile buffer.  
MORGAN County, Kentucky

This letter is in response to your data request for the project referenced above. We have reviewed our Natural Heritage Program Database to determine if any of the endangered, threatened, or special concern plants, animals, features, or exemplary natural communities monitored by the Office of Kentucky Nature Preserves are noted within your submitted project area.





Andy Beshear  
Governor

## Energy and Environment Cabinet Office of Kentucky Nature Preserves

300 Sower Boulevard  
Frankfort, Kentucky 40601  
Telephone: 502-782-7828  
EEC.KYBAT@ky.gov

Rebecca W. Goodman  
Secretary

Zack Couch  
Executive Director

Thank you for using the Office of Kentucky Nature Preserves' Biological Assessment Tool.

This report provides site-specific biological data for the proposed project area, offering documented occurrences of rare, threatened, and endangered species. Unlike other tools which may model potential species presence, this tool delivers verified field data collected by biologists, ensuring an accurate understanding of site conditions. Some regulatory processes request this information for project siting, permitting, and conservation planning. Understanding the presence of endangered, threatened, or special concern plants, animals or exemplary natural communities may help avoid delays, mitigate risks, and support compliance with environmental guidelines.

### Key Findings included in the report:

- A - Occurrences which intersect the project area
- B - Occurrences which intersect the buffer around the project area
- C - References and Recommendations relevant to occurrences near to or within the project area

We would like to take this opportunity to remind you of the **terms** of the data request license, which you agreed upon in order to submit your request. Data and data products received from the Office of Kentucky Nature Preserves, including any portion thereof, may not be reproduced in any form or by any means without the express written authorization of the Office of Kentucky Nature Preserves. These products are provided on a temporary basis for the express project (described above) of the requester, and may not be redistributed, resold or copied without the written permission of the Office of Kentucky Nature Preserves.

Please note that the quantity and quality of data are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed and new plants and animals are still being discovered. For these reasons, we cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. These reports summarize the existing information known to the Kentucky Natural Heritage Database at the time of the request. They should never be regarded as final statements on the occurrences being considered, nor should they be substituted for on-site surveys required for environmental assessments. Please note that certain sensitive occurrences may be listed in this table but are not represented in the accompanying map.

If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office by email at [EEC.KYBAT@ky.gov](mailto:EEC.KYBAT@ky.gov).

Alexis R. Sheehan  
Database Administrator  
Office of Kentucky Nature Preserves

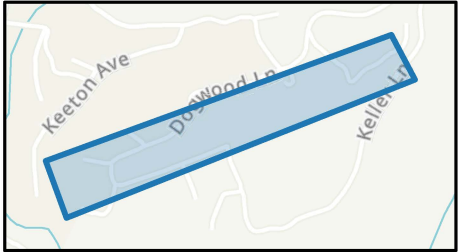
Sydnie Hansen  
GIS Analyst  
Office of Kentucky Nature Preserves



# A. Project Area - Occurrence Report

This section details occurrences that have been documented within the project footprint through direct field surveys. Presence is based on confirmed biological observations. The table below includes the species' status at state and federal levels, as well as the dates each occurrence was last observed. Please review Precision, as it is indicative of the location uncertainty of the individual records.

- Botanical
- Ecological
- Zoological

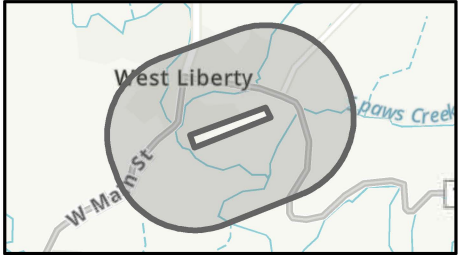


| ID   | Classification | Scientific Name    | Common Name           | Precision | Fed. Status | State Status    | G Rank | S Rank | SWAP | Last Obs. Date | Habitat | Location   |
|------|----------------|--------------------|-----------------------|-----------|-------------|-----------------|--------|--------|------|----------------|---------|------------|
| 6382 | Mammals        | Spilogale putorius | Eastern Spotted Skunk | Cnty.     |             | Special Concern | G4     | S2S3   | Yes  | 1993-pre       |         | Morgan Co. |

## B. Buffer Area - Occurrence Report

This section details occurrences recorded within the project footprint, as well as the designated buffer area surrounding the project site. While these species are not directly within the project footprint, their proximity may influence project planning due to habitat connectivity or regulatory considerations.

- Botanical
- Ecological
- Zoological

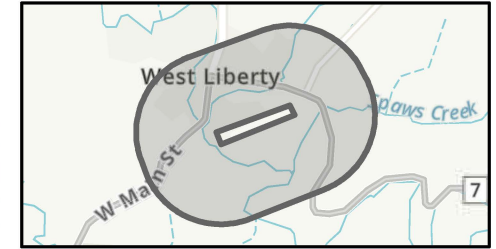


| ID    | Classification  | Scientific Name    | Common Name           | Precision | Fed. Status | State Status    | G Rank | S Rank | SWAP | Last Obs. Date | Habitat                                                                                                              | Location                                            |
|-------|-----------------|--------------------|-----------------------|-----------|-------------|-----------------|--------|--------|------|----------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 5169  | Fishes          | Noturus stigmosus  | Northern Madtom       | Gen.      |             | Special Concern | G3     | S2S3   | Yes  | 1959-06-12     |                                                                                                                      | Licking River, near West Liberty at Moores Landing. |
| 6382  | Mammals         | Spilogale putorius | Eastern Spotted Skunk | Cnty.     |             | Special Concern | G4     | S2S3   | Yes  | 1993-pre       |                                                                                                                      | Morgan Co.                                          |
| 10283 | Vascular Plants | Trifolium reflexum | Buffalo Clover        | Gen.      |             | Endangered      | G3G4   | S1S2   | Yes  | 1845           | Prairies and disturbed openings either associated with forests or opportunistically in fields or well-drained sites. | LICKING RIVER.                                      |

## C. References and Recommendations (1 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 



Per U.S. Fish and Wildlife Service, in-channel activities near this project may directly or indirectly impact mussel species that may be present in the nearby river system. Even upland disturbances can degrade habitats by increasing sedimentation or introducing pollutants. To minimize these impacts, projects should utilize Best Management Practices to minimize erosion, limit vegetation removal, revegetate disturbed areas with native vegetation, use bioengineering techniques to restore disturbance to stream banks, install upland sediment basins to minimize sediment input, install detention structures to manage stormwater runoff, and minimize the addition of impervious surfaces in the watershed.

This project area overlaps with one or more wetlands recorded in the NWI. Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes. Visit <https://www.fws.gov/program/national-wetlands-inventory>

The proposed project area overlaps with the species range for *Cryptobranchus alleganiensis alleganiensis*, Eastern Hellbender. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Aneides aeneus*, Green Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Desmognathus fuscus*, Northern Dusky Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Desmognathus ochrophaeus*, Allegheny Mountain Dusky Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Podilymbus podiceps*, Pied-billed Grebe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Podiceps auritus*, Horned Grebe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Botaurus lentiginosus*, American Bittern. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Butorides virescens*, Green Heron. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

The proposed project area overlaps with the species range for *Nycticorax nycticorax*, Black-crowned Night-heron. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

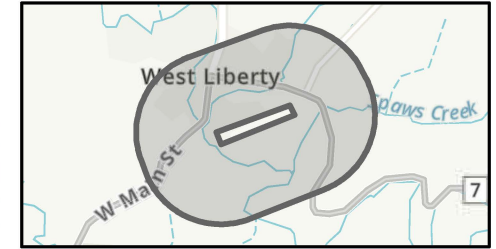
The proposed project area overlaps with the species range for *Anas rubripes*, American Black Duck. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.



## C. References and Recommendations (2 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 

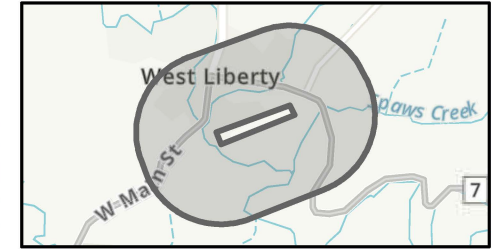


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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Aythya marila</i> , Greater Scaup. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Aythya affinis</i> , Lesser Scaup. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Lophodytes cucullatus</i> , Hooded Merganser. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Pandion haliaetus</i> , Osprey. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.               |
| The proposed project area overlaps with the species range for <i>Haliaeetus leucocephalus</i> , Bald Eagle. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.    |
| The proposed project area overlaps with the species range for <i>Circus hudsonius</i> , Northern Harrier. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Accipiter striatus</i> , Sharp-shinned Hawk. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.  |
| The proposed project area overlaps with the species range for <i>Falco sparverius</i> , American Kestrel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Falco peregrinus</i> , Peregrine Falcon. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Bonasa umbellus</i> , Ruffed Grouse. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Colinus virginianus</i> , Northern Bobwhite. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.  |
| The proposed project area overlaps with the species range for <i>Tringa flavipes</i> , Lesser Yellowlegs. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Tringa solitaria</i> , Solitary Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.    |
| The proposed project area overlaps with the species range for <i>Actitis macularius</i> , Spotted Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.   |

## C. References and Recommendations (3 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 



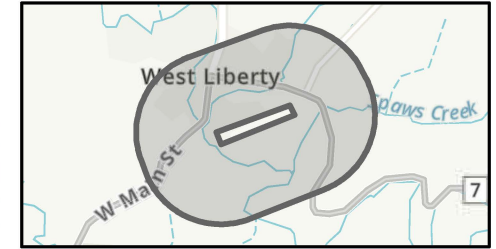
|                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| The proposed project area overlaps with the species range for <i>Calidris pusilla</i> , Semipalmated Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Gallinago delicata</i> , Wilson's Snipe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                |
| The proposed project area overlaps with the species range for <i>Scolopax minor</i> , American Woodcock. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                 |
| The proposed project area overlaps with the species range for <i>Chlidonias niger</i> , Black Tern. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                      |
| The proposed project area overlaps with the species range for <i>Coccyzus americanus</i> , Yellow-billed Cuckoo. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.         |
| The proposed project area overlaps with the species range for <i>Asio flammeus</i> , Short-eared Owl. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                    |
| The proposed project area overlaps with the species range for <i>Antrostomus vociferus</i> , Whip-poor-will. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Melanerpes erythrocephalus</i> , Red-headed Woodpecker. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Empidonax traillii</i> , Willow Flycatcher. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Empidonax minimus</i> , Least Flycatcher. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.               |
| The proposed project area overlaps with the species range for <i>Riparia riparia</i> , Bank Swallow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                     |
| The proposed project area overlaps with the species range for <i>Corvus corax</i> , Common Raven. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                        |
| The proposed project area overlaps with the species range for <i>Cistothorus stellaris</i> , Sedge Wren. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                 |



## C. References and Recommendations (4 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 



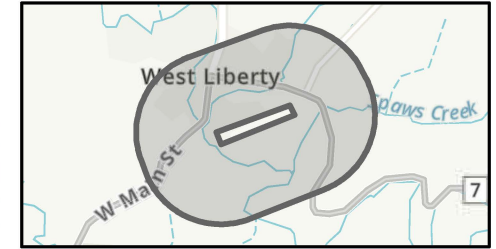
|                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Hylocichla mustelina</i> , Wood Thrush. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.              |
| The proposed project area overlaps with the species range for <i>Vermivora cyanoptera</i> , Blue-winged Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Vermivora chrysoptera</i> , Golden-winged Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.   |
| The proposed project area overlaps with the species range for <i>Setophaga tigrina</i> , Cape May Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Setophaga virens</i> , Black-throated Green Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Setophaga discolor</i> , Prairie Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Setophaga striata</i> , Blackpoll Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.           |
| The proposed project area overlaps with the species range for <i>Setophaga cerulea</i> , Cerulean Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Protonotaria citrea</i> , Prothonotary Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Limnothlypis swainsonii</i> , Swainson's Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.    |
| The proposed project area overlaps with the species range for <i>Parkesia motacilla</i> , Louisiana Waterthrush. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.      |
| The proposed project area overlaps with the species range for <i>Geothlypis formosa</i> , Kentucky Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.           |



## C. References and Recommendations (5 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical ■  
Ecological ■  
Zoological ■

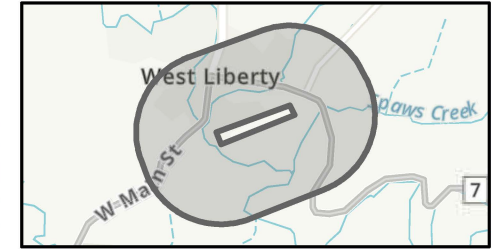


|                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Cardellina canadensis</i> , Canada Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.        |
| The proposed project area overlaps with the species range for <i>Spiza americana</i> , Dickcissel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                  |
| The proposed project area overlaps with the species range for <i>Spizella pusilla</i> , Field Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.              |
| The proposed project area overlaps with the species range for <i>Passerculus sandwichensis</i> , Savannah Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.  |
| The proposed project area overlaps with the species range for <i>Ammodramus savannarum</i> , Grasshopper Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.   |
| The proposed project area overlaps with the species range for <i>Centronyx henslowii</i> , Henslow's Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.       |
| The proposed project area overlaps with the species range for <i>Dolichonyx oryzivorus</i> , Bobolink. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.              |
| The proposed project area overlaps with the species range for <i>Sturnella magna</i> , Eastern Meadowlark. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Euphagus carolinus</i> , Rusty Blackbird. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Lethenteron appendix</i> , American Brook Lamprey. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Polyodon spathula</i> , Paddlefish. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                |
| The proposed project area overlaps with the species range for <i>Macrhybopsis hyostoma</i> , Shoal Chub. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.            |
| The proposed project area overlaps with the species range for <i>Myotis lucifugus</i> , Little Brown Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.           |

## C. References and Recommendations (6 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical ■  
Ecological ■  
Zoological ■



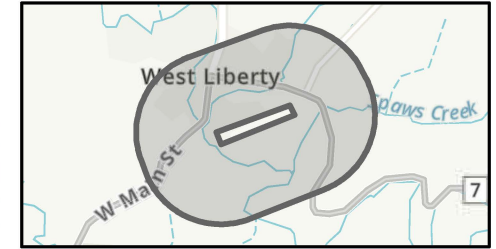
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Myotis grisescens</i> , Gray Myotis. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                              |
| The proposed project area overlaps with the species range for <i>Myotis sodalis</i> , Indiana Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                                 |
| The proposed project area overlaps with the species range for <i>Myotis leibii</i> , Eastern Small-footed Myotis. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                  |
| The proposed project area overlaps with the species range for <i>Myotis septentrionalis</i> , Northern Long-Eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Perimyotis subflavus</i> , Tricolored Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                        |
| The proposed project area overlaps with the species range for <i>Corynorhinus townsendii virginianus</i> , Virginia Big-eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Corynorhinus rafinesquii</i> , Rafinesque's Big-eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.        |
| The proposed project area overlaps with the species range for <i>Sylvilagus obscurus</i> , Appalachian Cottontail. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                 |
| The proposed project area overlaps with the species range for <i>Neotoma magister</i> , Allegheny Woodrat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                         |
| The proposed project area overlaps with the species range for <i>Spilogale putorius</i> , Eastern Spotted Skunk. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                   |
| The proposed project area overlaps with the species range for <i>Crotalus horridus</i> , Timber Rattlesnake. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                       |
| The proposed project area overlaps with the species range for <i>Cambarus hazardi</i> , Brawny Crayfish. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                           |
| The proposed project area overlaps with the species range for <i>Danaus plexippus plexippus</i> , Monarch. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                         |



## C. References and Recommendations (7 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 



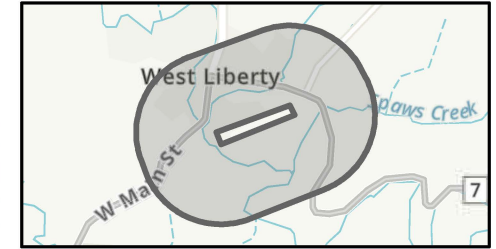
|                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Alasmodonta marginata</i> , Elktoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                      |
| The proposed project area overlaps with the species range for <i>Alasmodonta viridis</i> , Slippershell Mussel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.           |
| The proposed project area overlaps with the species range for <i>Anodontoides ferussacianus</i> , Cylindrical Papershell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Cyprogenia stegaria</i> , Fanshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                      |
| The proposed project area overlaps with the species range for <i>Ellipsaria lineolata</i> , Butterfly. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                    |
| The proposed project area overlaps with the species range for <i>Elliptio crassidens</i> , Elephantear. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                   |
| The proposed project area overlaps with the species range for <i>Epioblasma obliquata</i> , Catpaw. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                       |
| The proposed project area overlaps with the species range for <i>Epioblasma rangiana</i> , Northern Riffleshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Fusconaia subrotunda</i> , Longsolid. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                    |
| The proposed project area overlaps with the species range for <i>Lampsilis abrupta</i> , Pink Mucket. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                     |
| The proposed project area overlaps with the species range for <i>Lampsilis ovata</i> , Pocketbook. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                        |
| The proposed project area overlaps with the species range for <i>Leptodea leptodon</i> , Scaleshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                      |
| The proposed project area overlaps with the species range for <i>Ligumia recta</i> , Black Sandshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                     |



## C. References and Recommendations (8 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 

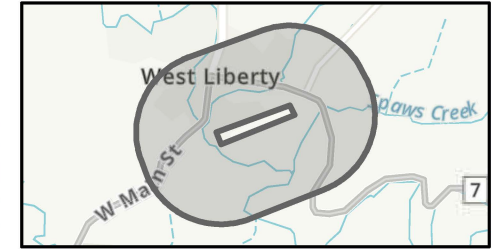


|                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The proposed project area overlaps with the species range for <i>Obovaria subrotunda</i> , Round Hickorynut. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.          |
| The proposed project area overlaps with the species range for <i>Plethobasus cooperianus</i> , Orangefoot Pimpleback. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts. |
| The proposed project area overlaps with the species range for <i>Plethobasus cyphus</i> , Sheepnose. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                  |
| The proposed project area overlaps with the species range for <i>Pleurobema clava</i> , Clubshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                    |
| The proposed project area overlaps with the species range for <i>Pleurobema cordatum</i> , Ohio Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.               |
| The proposed project area overlaps with the species range for <i>Pleurobema plenum</i> , Rough Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                |
| The proposed project area overlaps with the species range for <i>Pleurobema rubrum</i> , Pyramid Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.              |
| The proposed project area overlaps with the species range for <i>Theliderma cylindrica</i> , Rabbitsfoot. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Quadrula fragosa</i> , Winged Mapleleaf. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Simpsonaias ambigua</i> , Salamander Mussel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.         |
| The proposed project area overlaps with the species range for <i>Toxolasma lividum</i> , Purple Lilliput. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.             |
| The proposed project area overlaps with the species range for <i>Paetulunio fabalis</i> , Rayed Bean. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.                 |
| The proposed project area overlaps with the species range for <i>Leaunio lienosus</i> , Little Spectaclecase. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <a href="https://app.fw.ky.gov/kyswap/">https://app.fw.ky.gov/kyswap/</a> for information on possible management, research and habitat restoration efforts.         |

## C. References and Recommendations (9 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical   
Ecological   
Zoological 



The proposed project area overlaps with the species range for *Thaspium pinnatifidum*, Cutleaf Meadow-parsnip. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at <https://app.fw.ky.gov/kyswap/> for information on possible management, research and habitat restoration efforts.

## Thank you for using the Office of Kentucky Nature Preserves Biological Assessment Tool.

OKNP's species dataset relies on continuous monitoring and surveying for species of concern throughout the state. Any records of species of concern found within this project area would greatly benefit the quality and comprehensiveness of the statewide dataset for rare, threatened and endangered species. If you would like to contribute any additional species information, please do not hesitate to contact our office by email at [EEC.KYBAT@ky.gov](mailto:EEC.KYBAT@ky.gov) or by phone at 502-782-7828.

### Quick Key

For a full report key, visit [naturepreserves.org](http://naturepreserves.org)

#### Global Rank (GRANK) - Estimate of species abundance on a global scale

|            |                                       |
|------------|---------------------------------------|
| <b>GX</b>  | Presumed extinct                      |
| <b>GH</b>  | Possibly extinct; Missing             |
| <b>G1</b>  | Extremely Rare                        |
| <b>G2</b>  | Rare                                  |
| <b>G3</b>  | Uncommon                              |
| <b>G4</b>  | Common                                |
| <b>G5</b>  | Very Common                           |
| <b>GNR</b> | Not ranked                            |
| <b>GU</b>  | Unrankable due to lack of information |
| <b>?</b>   | Indicates Uncertainty                 |
| <b>T #</b> | Appended for infraspecific taxa       |
| <b>Q</b>   | Indicates Questionable                |

#### State Rank (SRANK) - Estimate of species abundance in Kentucky

|            |                                       |
|------------|---------------------------------------|
| <b>SX</b>  | Presumed extirpated                   |
| <b>SH</b>  | Possibly extirpated                   |
| <b>S2</b>  | Rare                                  |
| <b>S3</b>  | Uncommon                              |
| <b>S4</b>  | Many Occurrences                      |
| <b>S5</b>  | Very Common                           |
| <b>SNR</b> | Not ranked                            |
| <b>SU</b>  | Unrankable due to lack of information |
| <b>SNA</b> | Not Applicable                        |
| <b>?</b>   | Indicates Uncertainty                 |
| <b>B</b>   | Indicates breeding population         |
| <b>N</b>   | Indicates non-breeding population     |

#### Precision - The precision of a record

|              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| <b>Sec.</b>  | Seconds; Can be accurately mapped within a 3-second radius (approximately 100 ft) |
| <b>Min.</b>  | Minutes; Can be mapped within a 1-minute radius (approximately 1.5 miles)         |
| <b>Gen.</b>  | General; Only known to a place name (within about 5 miles)                        |
| <b>Cnty.</b> | County; Only known to the county                                                  |
| <b>Quad.</b> | Quad; Only known to the county                                                    |





# KY Office of Kentucky Nature Preserves

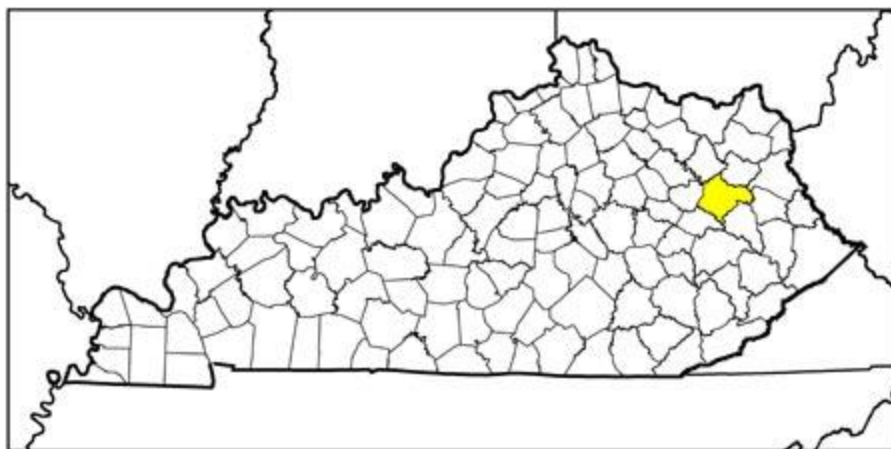
[KY Rare Plant Database](#) | [Status/Rank Explanation](#) | [Glossary](#) | [Credits](#)



## Additional Resources:



## Search Results : Morgan County



- [\*Acer spicatum\*](#) - Mountain Maple
- [\*Chrysosplenium americanum\*](#) - American Golden-saxifrage
- [\*Circaea alpina\*](#) - Small Enchanter's Nightshade
- [\*Cypripedium parviflorum\*](#) - Small Yellow Lady's-slipper
- [\*Juglans cinerea\*](#) - White Walnut
- [\*Lespedeza stuevei\*](#) - Tall Bush-clover
- [\*Polytrichum pallidisetum\*](#) - A Hair Cap Moss
- [\*Thaspium pinnatifidum\*](#) - Cutleaf Meadow-parsnip

**Note:** To print pages from this site change Page Setup to Landscape  
**Data Last Updated: November 2018**

**Office of Kentucky Nature Preserves**  
300 Sower Blvd  
Frankfort, KY 40601  
Phone: (502) 573-2886  
Email: [naturepreserves@ky.gov](mailto:naturepreserves@ky.gov)





## Layer List

### Office of Kentucky Nature Preserves Public Lands

- ON Kentucky State Nature Preserves
- ON Kentucky Heritage Land Conservation Fund
- ON State Natural Areas
- ON OKNP Wild River Corridors

### Other Public Lands

### Reference Layers

### Water Resources

### Imagery/ Basemap

600ft

-83.232 37.919 Degrees





U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Memphis Airports District Office  
2600 Thousand Oaks Blvd., Ste. 2250  
Memphis, TN 38118

Phone (901) 322-8180

March 3, 2026

Kentucky Ecological Services Field Office  
U.S Fish and Wildlife Service  
JC Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, Kentucky 40601-8670  
#502-695-0468 (ext 46115); KentuckyES@fws.gov

Re: 9I3 Runway 7-25 Obstruction Removal  
West Liberty Airport (9I3), West Liberty, Kentucky  
USFWS IPaC Consultation Code: 2025-0104398

Request for Concurrence and Finalization of Section 7 Consultation

To Whom It May Concern:

In accordance with Section 7 of the Endangered Species Act (ESA), the Federal Aviation Administration (FAA) is requesting U.S. Fish and Wildlife Service (USFWS) concurrence that the FAA's action of authorizing the West Liberty-Morgan County Airport Board (sponsor) to remove vegetative obstructions to air navigation at the West Liberty Airport (Airport), West Liberty, KY. On-site surveys support a biological determination of no effect determination for the Gray Bat, Pink Mucket, and Snuffbox Mussel, and a may affect, not likely to adversely affect determination for the Northern Long-eared Bat, Indiana bat, and Virginia Big-eared Bat resulting from work related to the West Liberty obstruction removal project. The Proposed Project would not jeopardize the continued existence of the Eastern Hellbender, Salamander Mussel, and Monarch Butterfly and Tricolor Bat. Our biological evaluation is provided below, including a project description, identification of the study areas, and a discussion of potential effects on ESA-listed and federally protected species.

### **Proposed Project (Obstruction Removal)**

The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in attached Layout Plan (Figure 1). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade. Lights will be affixed to the top of utility structures that cannot be removed. The proposed project area is shown on the attached maps, and obstruction removal will be completed between February 1, 2027 and March 30, 2027.

## Study Areas and Habitat Overview

A limited site investigation of the study area was conducted on August 7, 2025, and included areas where tree removal may occur (see attached Layout Plan). This habitat assessment did not include official surveys for or reveal evidence of federally listed species during the site investigation.

The study area, where trees are proposed for removal, is located within private and airport owned parcels and contains steep wooded slopes, residential yards, and other maintained grass areas. The approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures) consists of 3.5 acres of trees with the remainder as grass areas and built infrastructure including buildings and roadways. Observed vegetation included white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipifera*), dogwood (*Cornus* species), hornbeam (*Carpinus caroliniana*), sugar maple (*Acer saccharum*), and Christmas fern (*Polystichum acrostichoides*). Three homes, three outbuildings, and one business is in the study area. No impacts will occur on these structures.

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (Figure 2). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High-Water Marks characterized by lack of vegetation and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

Refer to Table 1 for federally listed species, habitat requirements, and effects determinations identified for this project. Figure 2 depicts the study area and potential habitat present.

## ESA-Listed and Federally Protected Species

**Table 1. Federally Listed Species and Habitat Requirements**

| Species/Status                                                                     | Habitat Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Suitable Habitat within Direct Study Area (SA)                                                                                                                      | Preliminary Effect Determination                                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Gray Bat</b><br>( <i>Myotis grisescens</i> )<br>Endangered                      | The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.                                                                                                                                                                                                                                                                                                                                      | No caves, mines, or tunnels are within the study area.                                                                                                              | No Effect                                                       |
| <b>Indiana Bat</b><br>( <i>Myotis sodalis</i> )<br>Endangered                      | The Indiana Bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.                                                                                                                                                                                                                                                                                  | Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.                                 | May Affect, Not Likely to Adversely Affect                      |
| <b>Northern Long-eared Bat</b> ( <i>Myotis septentrionalis</i> )<br>Endangered     | In winter, northern long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. During the summer they roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees.                                                                                                                                                                                                                                                   | Rock bluffs are within the project area. Trees to be removed are mature and may provide suitable summer roosting habitat.                                           | May Affect, Not Likely to Adversely Affect                      |
| <b>Tricolored Bat</b><br>( <i>Perimyotis subflavus</i> )<br>Proposed<br>Endangered | In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needles attached to living trees. They commonly forage along riparian corridors.<br>Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats. | No caves were observed within or near the project site. Forest with mature trees do exist in the study area while riparian corridors do adjacent to the study area. | Not likely to jeopardize the continued existence of the species |



| Species/Status                                                                                                                   | Habitat Requirements                                                                                                                                                                                                                                                                                  | Suitable Habitat within Direct Study Area (SA)                                                                                                     | Preliminary Effect Determination                                |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Virginia Big-eared Bat</b><br>( <i>Corynorhinus</i><br>[=Plecotus]<br><i>townsendii</i><br><i>virginianus</i> )<br>Endangered | Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.                                                                                                                                                                                              | No caves are located in the study area.                                                                                                            | May Affect,<br>Not Likely to<br>Adversely<br>Affect             |
| <b>Eastern Hellbender</b><br>( <i>Cryptobranchus alleganiensis alleganiensis</i> )<br>Proposed<br>Endangered                     | Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.                                            | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | Not likely to jeopardize the continued existence of the species |
| <b>Pink Mucket</b><br>( <i>Lampsilis abrupta</i> )<br>Endangered                                                                 | The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.                                                                                                                                                                                                              | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | No Effect                                                       |
| <b>Salamander Mussel</b><br>( <i>Simpsonaias ambigua</i> )<br>Proposed<br>Endangered                                             | The salamander mussel inhabits fast moving rivers under large flat rocks,                                                                                                                                                                                                                             | No suitable habitat is located within the study area or will be affected by the Proposed Action.                                                   | Not likely to jeopardize the continued existence of the species |
| <b>Snuffbox Mussel</b><br>( <i>Epioblasma triquetra</i> )<br>Endangered                                                          | The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave action.                                                                                                                                                                                 | The ephemeral to intermittent stream in the study area does not have the hydrologic regime to support the snuffbox mussel.                         | No Effect                                                       |
| <b>Monarch Butterfly</b><br>( <i>Danaus plexippus</i> )<br>Proposed<br>Threatened                                                | Monarch butterflies require the presence of milkweed ( <i>Asclepias sp.</i> ), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands. | Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area. | Not likely to jeopardize the continued existence of the species |

The photographs in Attachment C show the typical habitats observed within the study area.

Based on the assessment above, the FAA has determined a determination of “May Affect, Not Likely to Adversely Affect” for the Northern Long-eared Bat, Indiana bat, and Virginia Big-eared Bat because of the Proposed Project. The FAA appreciates your review of the Proposed Project and requests your review and concurrence with our effects determinations for these species within 30 days of receiving this letter. If you have any questions, please contact Lopa Naik via email at [lopa.naik@faa.gov](mailto:lopa.naik@faa.gov).

Sincerely,

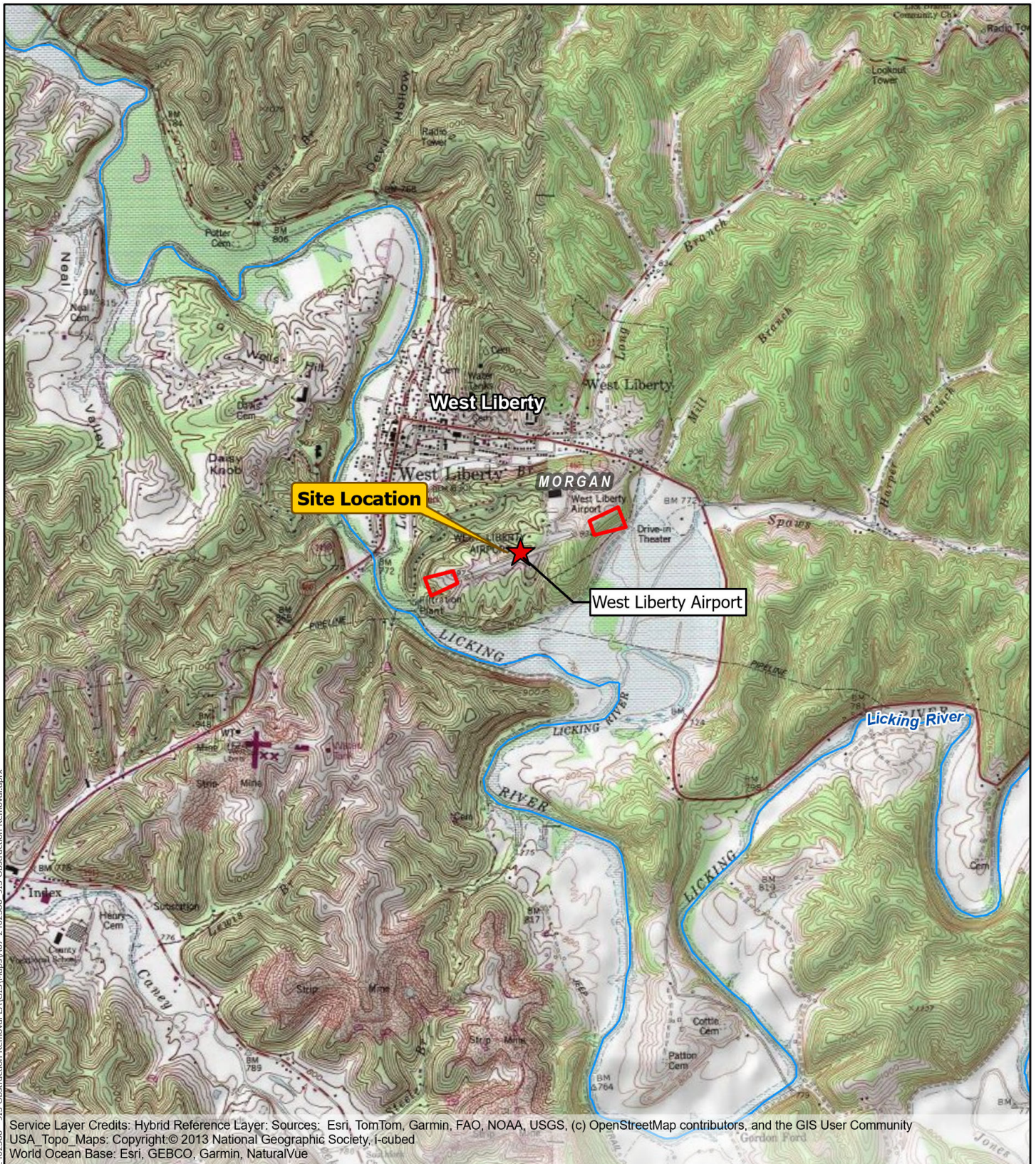
*lopa naik*

Lopa Naik  
Environmental Protection Specialist  
Memphis ADO

Enclosures:

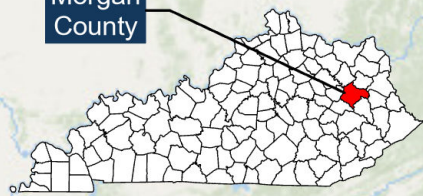
Figure 1: Site Location Map  
Figure 2: Habitat Overview Map Layout Plan  
Attachment A – USFWS IPaC Species List  
Attachment B – USFWS Technical Assistance Letters  
Attachment C – Photographs of typical habitats observed within the study area





Service Layer Credits: Hybrid Reference Layer: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community  
USA Topo Maps: Copyright© 2013 National Geographic Society, i-cubed  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

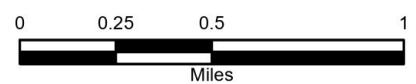
Morgan  
County



- ★ Site Location
- APE/Direct Study Area

## APPENDIX A - SITE LOCATION MAP

### West Liberty Airport (9I3) Runway 7-25 Obstruction Removal





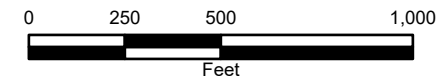


Morgan  
County

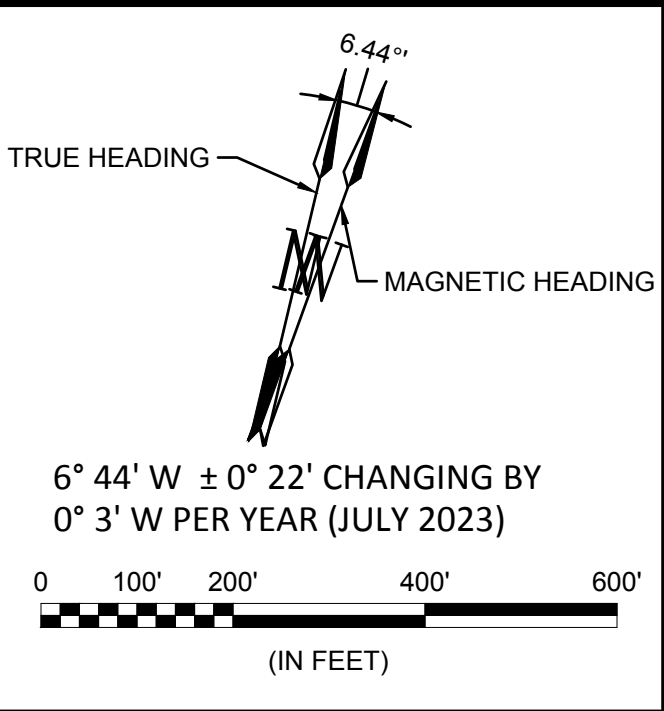
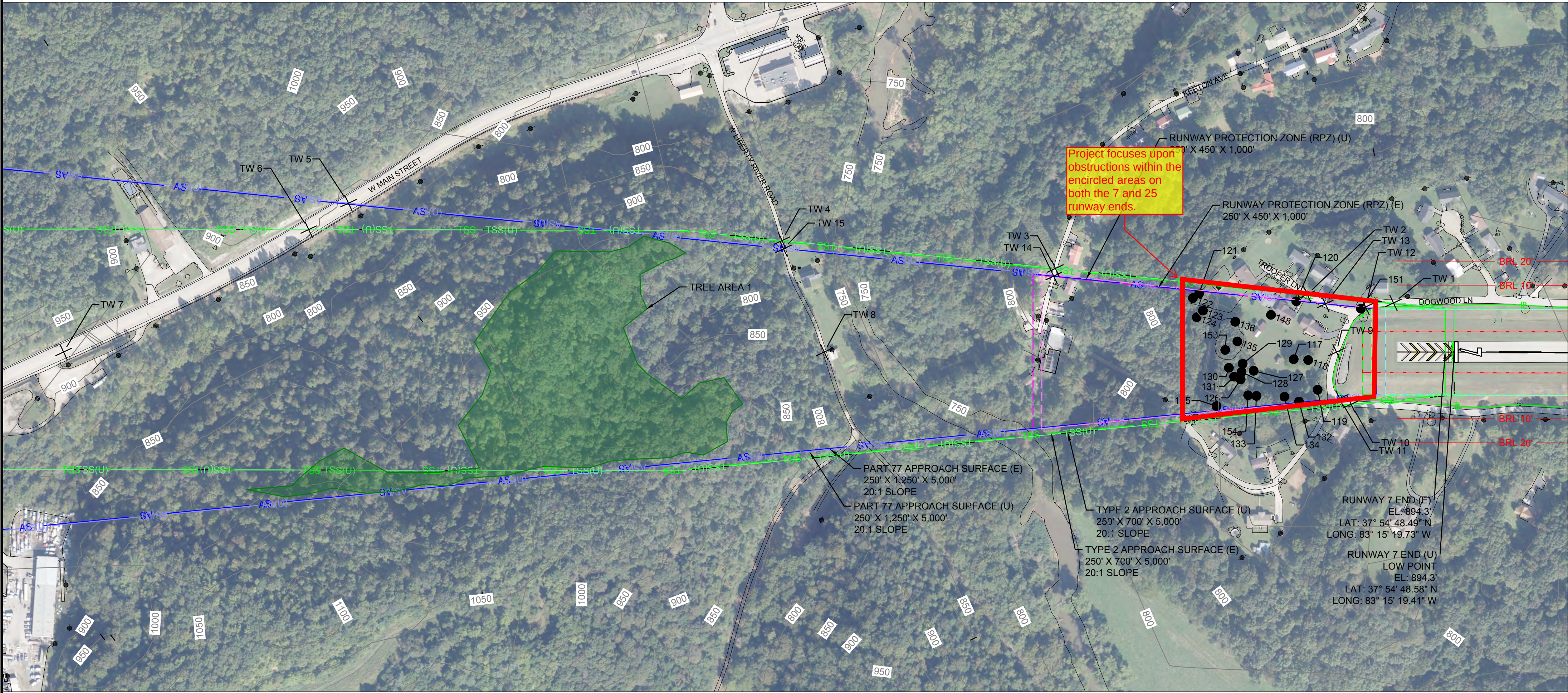
-  Direct Study Area
-  Tree Area
-  Stream

**Figure 2: Habitat Map**

**913 Obstruction Removal  
Morgan County, Kentucky**



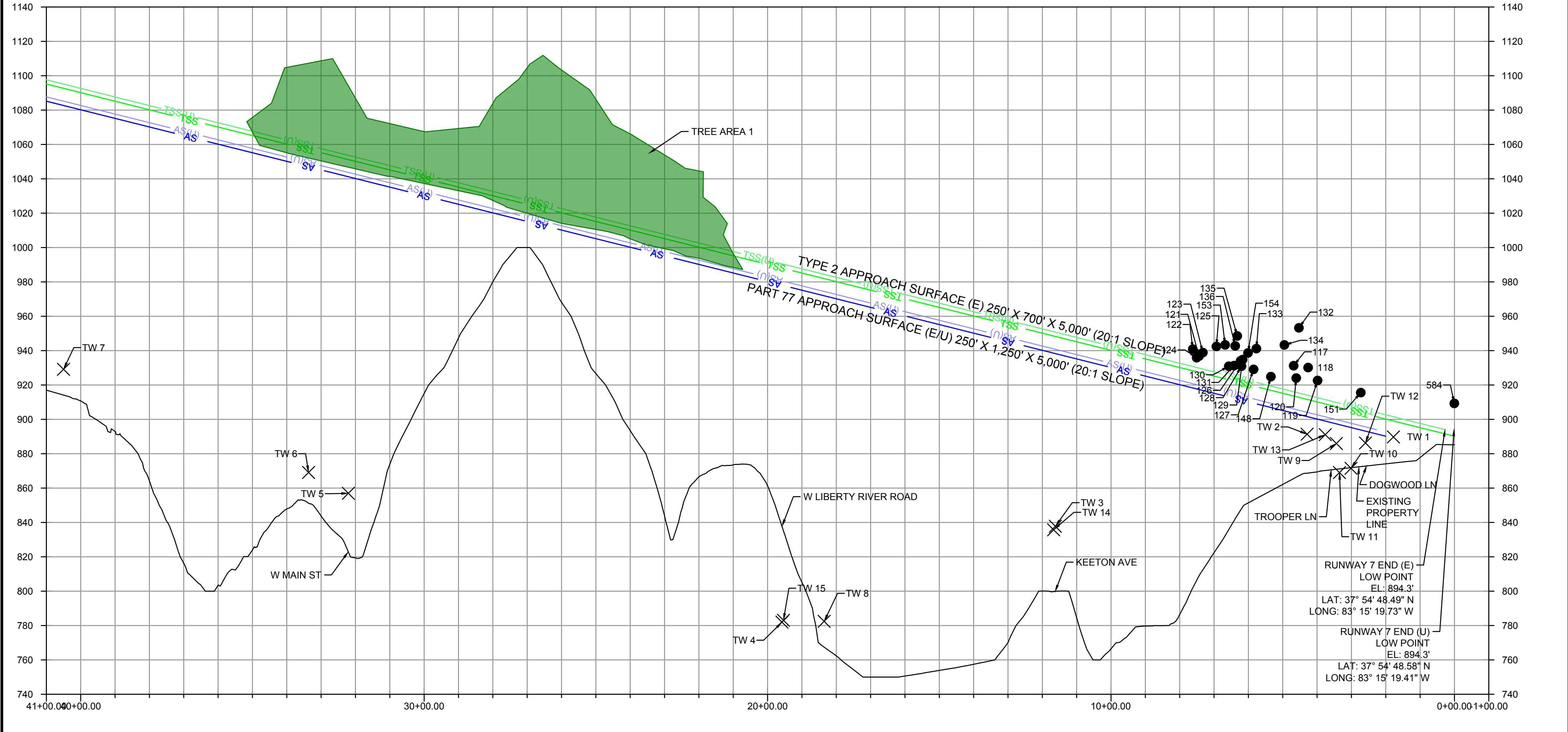




- NOTES:
1. VERTICAL EXAGGERATION IS 5' IN THE PROFILE.
  2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
  3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
  4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
  5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
  6. TW STAND FOR TRAVERSE WAY.
  7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

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|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
| TITLE: AIRPORT SPONSOR'S REPRESENTATIVE                                                          |      |
| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

File: L:\2021\21A14220 - 913 ALP Drawings\913-ALP\IPAS07.dwg Last Save: 8/1/2023 9:29 AM Last saved by: J.Littrell  
Last plotted by: Littrell, Jacob J. Plot Date: 8/14/2023 3:35 PM Plotter used: AutoCAD PDF (General Documentation).pc3

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| BY          |  |  |  |  |
| DESCRIPTION |  |  |  |  |
| DATE        |  |  |  |  |
| REV         |  |  |  |  |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT  
LAYOUT PLAN

Inner Portion of  
Approach Surface  
Drawing 7

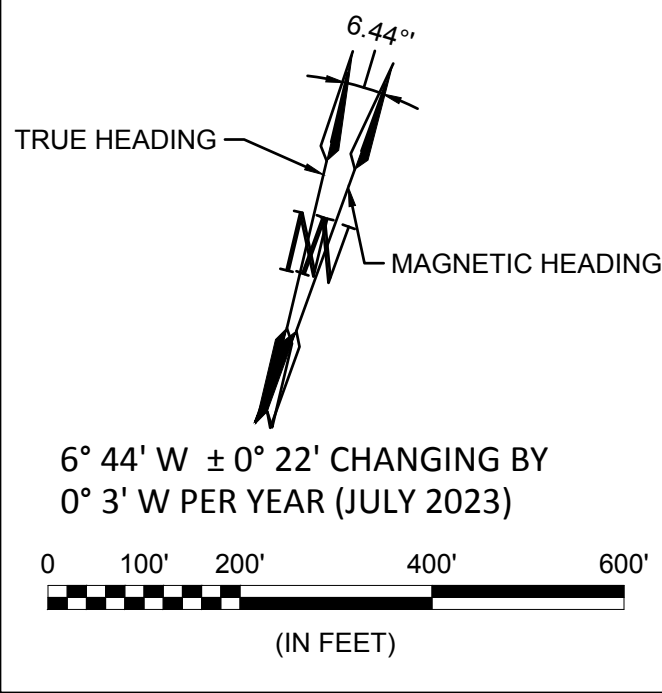
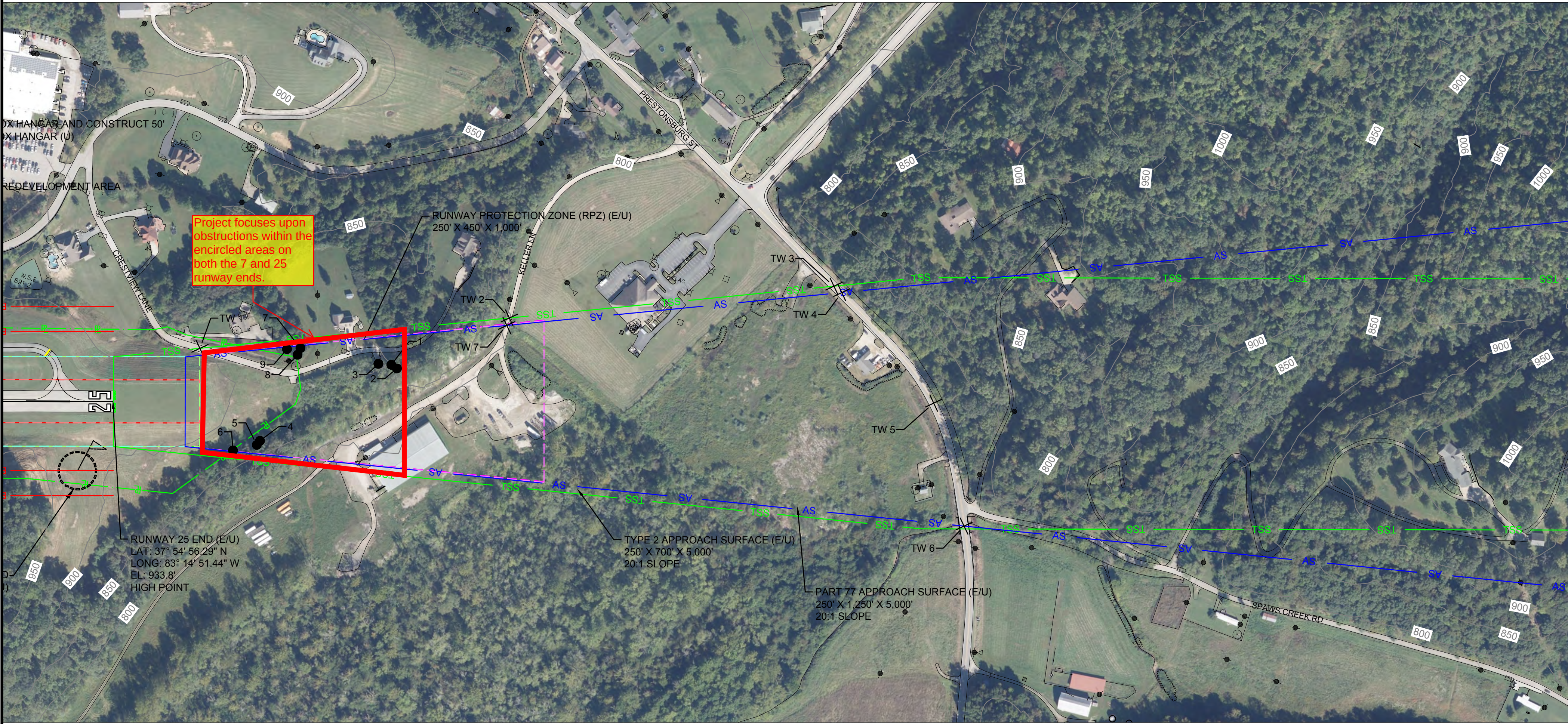
JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: J.L.

BAR IS ONE INCH ON  
ORIGINAL DRAWING  
1"  
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ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT  
LAYOUT EXHIBIT (RW 7 END)

SHEET  
NUMBER





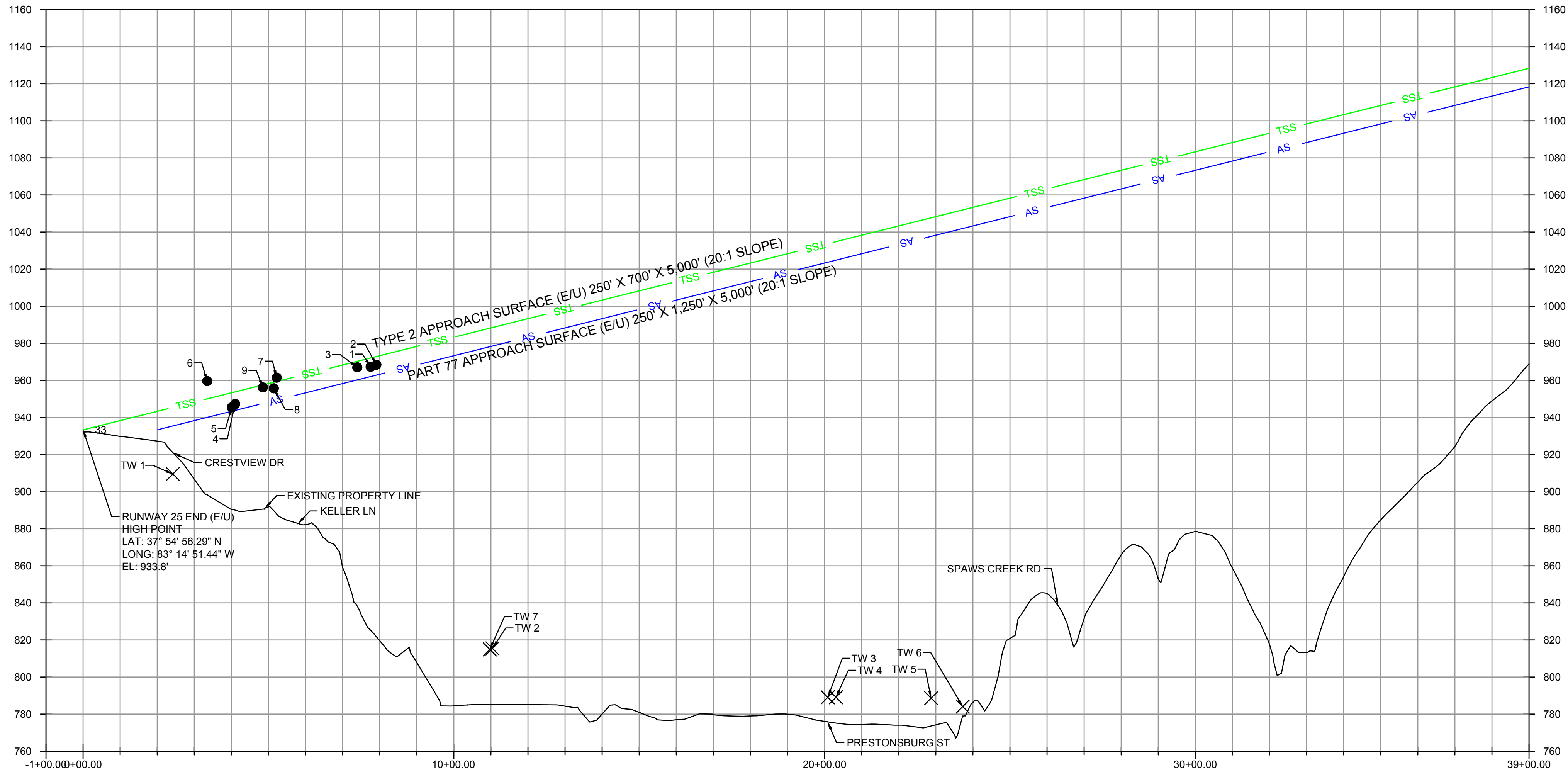
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- NOTES:
1. VERTICAL EXAGGERATION IS 5' IN THE PROFILE.
  2. OBSTRUCTION SURVEY WAS COMPLETED ON DECEMBER 2021.
  3. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
  4. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
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  6. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
| TITLE: AIRPORT SPONSOR'S REPRESENTATIVE                                                          |      |
| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY SAFETY AREA (RSA)                 |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT  
LAYOUT PLAN

Inner Portion of  
Approach Surface  
Drawing 25

JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

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LAYOUT EXHIBIT  
(RW 25 END)

SHEET  
NUMBER





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

03/02/2026 20:55:50 UTC

Project Code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do..>

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.



Attachment(s):

- Official Species List

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Kentucky Ecological Services Field Office**

J C Watts Federal Building, Room 265

330 West Broadway

Frankfort, KY 40601-8670

(502) 695-0467

## PROJECT SUMMARY

Project Code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Project Type: Airport - Maintenance/Modification

Project Description: West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91617215,-83.2459848084232,14z>



Counties: Morgan County, Kentucky



## ENDANGERED SPECIES ACT SPECIES

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STATUS                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>Gray Bat <i>Myotis grisescens</i></p> <p>No critical habitat has been designated for this species.<br/> Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a><br/> General project design guidelines:<br/> <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                                                                                                                          | Endangered             |
| <p>Indiana Bat <i>Myotis sodalis</i></p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.<br/> This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> <li>▪ The project area includes 'potential' habitat. All activities in this location should consider possible effects to this species.</li> </ul> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a><br/> General project design guidelines:<br/> <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p> | Endangered             |
| <p>Northern Long-eared Bat <i>Myotis septentrionalis</i></p> <p>No critical habitat has been designated for this species.<br/> Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a><br/> General project design guidelines:<br/> <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                                                                                                      | Endangered             |
| <p>Tricolored Bat <i>Perimyotis subflavus</i></p> <p>No critical habitat has been designated for this species.<br/> Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Proposed<br>Endangered |
| <p>Virginia Big-eared Bat <i>Corynorhinus (=Plecotus) townsendii virginianus</i></p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.<br/> Species profile: <a href="https://ecos.fws.gov/ecp/species/8369">https://ecos.fws.gov/ecp/species/8369</a><br/> General project design guidelines:<br/> <a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf</a></p>                                                                                                                                                                                                                          | Endangered             |

## AMPHIBIANS

| NAME                                                                                                                                                                                                                                                         | STATUS                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>Eastern Hellbender <i>Cryptobranchus alleganiensis alleganiensis</i></p> <p>No critical habitat has been designated for this species.<br/> Species profile: <a href="https://ecos.fws.gov/ecp/species/9039">https://ecos.fws.gov/ecp/species/9039</a></p> | Proposed<br>Endangered |

## CLAMS

| NAME                                                                                                                        | STATUS     |
|-----------------------------------------------------------------------------------------------------------------------------|------------|
| <p>Pink Mucket (pearlymussel) <i>Lampsilis abrupta</i></p> <p>No critical habitat has been designated for this species.</p> | Endangered |



| NAME                                                                                                                                                                                                                                                                                                                                                            | STATUS                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Species profile: <a href="https://ecos.fws.gov/ecp/species/7829">https://ecos.fws.gov/ecp/species/7829</a><br>General project design guidelines:<br><a href="https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf">https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf</a> |                        |
| Salamander Mussel <i>Simpsonaias ambigua</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/6208">https://ecos.fws.gov/ecp/species/6208</a>                                                                                  | Proposed<br>Endangered |
| Snuffbox Mussel <i>Epioblasma triquetra</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/4135">https://ecos.fws.gov/ecp/species/4135</a>                                                                                   | Endangered             |

## INSECTS

| NAME                                                                                                                                                                                                                                                                        | STATUS                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Monarch Butterfly <i>Danaus plexippus</i><br>There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a> | Proposed<br>Threatened |

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

03/02/2026 21:36:18 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for specified threatened and endangered species that may occur in your proposed project location consistent with the Kentucky Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **March 02, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' (Action) using the Kentucky (DKey) within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Kentucky DKey, you made the following effect determination(s) for the proposed Action:

| Species                                                                                           | Listing Status | Determination |
|---------------------------------------------------------------------------------------------------|----------------|---------------|
| Gray Bat ( <i>Myotis grisescens</i> )                                                             | Endangered     | No effect     |
| Pink Mucket (pearlymussel) ( <i>Lampsilis abrupta</i> )                                           | Endangered     | No effect     |
| Snuffbox Mussel ( <i>Epioblasma triquetra</i> )                                                   | Endangered     | No effect     |
| Virginia Big-eared Bat ( <i>Corynorhinus</i> (= <i>Plecotus</i> ) <i>townsendii virginianus</i> ) | Endangered     | May affect    |

### Consultation Status

**May Affect Determinations:** Species with May Affect determinations are those for which the DKey was unable to provide a conclusion or those for which you were either unsure about the determination or you chose to make a "may affect" determination. If the DKey was unable to provide a conclusion, this does not necessarily mean that the project is likely to adversely affect the species. If you think the project may affect the species or want additional technical assistance, please follow the instructions in the "Additional Coordination" section below. If a federal action agency chooses to make a "no effect" determination for the species, there is no

statutory requirement to request concurrence with that determination; however, the federal action agency should document the supporting information for this determination in their files. This documentation would typically demonstrate a lack of suitable habitat within the action area, show that no impacts to suitable habitat would occur, or provide information that the species is not reasonably certain to occur in the action area even though suitable habitat is present.

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Salamander Mussel *Simpsonia ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

### **Additional Coordination**

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.



## Action Description

You provided to IPaC the following name and description for the subject Action.

### 1. Name

9I3 Runway 7-25 Obstruction Removal

### 2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91617215,-83.2459848084232,14z>



## QUALIFICATION INTERVIEW

1. Will the proposed Action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

*Yes*

2. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

*No*

3. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

*No*

4. [Hidden Semantic] Does the action area intersect critical habitat?

**Automatically answered**

*No*

5. Will the proposed Action involve construction or operation of wind turbines?

*No*

6. Will the proposed Action involve blasting (other than a fireworks display)?

*No*

7. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

*No*

8. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g. leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

*No*

9. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge or culvert?

*No*

10. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

*No*

11. Will the proposed Action involve discharge of sediment into a stream?

*No*

12. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

*No*



13. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the gray bat?

**Automatically answered**

Yes

14. Will the proposed Action involve drilling or boring?

No

15. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the gray bat.

What is your effect determination for the **gray bat**?

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. "No effect"

16. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the Virginia big-eared bat?

**Automatically answered**

Yes

17. Will the proposed Action involve activities that occur within 1,000 feet from a cliffline? A cliffline is a naturally occurring, exposed, and nearly vertical rock structure at least 10 feet tall and 100 feet long.

Yes

18. Will the proposed Action involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds)?

No

19. Will the proposed Action include any activities that would alter stream flow, such as hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines?

No

20. Will the proposed Action involve dredging or in-stream gravel mining?

No

21. Will the proposed Action involve resource extraction (e.g., mining, oil/gas, logging), including exploration activities?

No

22. Will the proposed Action involve stream impacts (perennial or intermittent) that would require an individual permit under 404 of the Clean Water Act?

No

23. Will the proposed Action involve activities that would contribute measureable nonpoint source pollution to streams (e.g., sediment, nutrients, etc.)? *See the following EPA webpage for more examples of nonpoint source pollution and activities that can produce it: <https://www.epa.gov/nps/basic-information-about-nonpoint-source-nps-pollution>*

No

24. Will the proposed Action involve new or increased use of public recreational OHV trails?

No

25. Will the proposed Action disturb the channel or bank of a perennial or intermittent stream?

No

26. Will the proposed Action disturb the channel or bank of an ephemeral stream?

No

27. Will the proposed Action involve vegetation removal within 200 feet of a perennial stream bank?

No

28. Will the proposed Action involve excavation or grading, including for the construction or improvement of an access road?

No

29. [Hidden Semantic] Does the project area intersect the AOI of the snuffbox?

**Automatically answered**

Yes

30. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the snuffbox.

What determination do you want to make for the **snuffbox**:

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. "No effect"

31. [Hidden Semantic] Does the project area intersect the AOI of the pink mucket (*Lampsilis abrupta*)?

**Automatically answered**

Yes



32. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the pink mucket.

What is your effect determination for the **pink mucket**:

**Note:** IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

1. *"No effect"*

## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

03/02/2026 21:24:29 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for the endangered Indiana bat and its critical habitat in the proposed project location, pursuant to the Indiana Bat Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **March 02, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' using the Indiana Bat DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Indiana Bat DKey, you made the following effect determination(s) for the proposed Action:

| Species                               | Listing Status | Determination |
|---------------------------------------|----------------|---------------|
| Indiana Bat ( <i>Myotis sodalis</i> ) | Endangered     | May affect    |

### Consultation Status

**May Affect Determinations:** Species with May Affect determinations are those for which the DKey was unable to provide a conclusion or those for which you were either unsure about the determination or you chose to make a "may affect" determination. If the DKey was unable to provide a conclusion, this does not necessarily mean that the project is likely to adversely affect the species. If you think the project may affect the species or want additional technical assistance, please follow the instructions in the "Additional Coordination" section below. If a federal action agency chooses to make a "no effect" determination for the species, there is no statutory requirement to request concurrence with that determination; however, the federal action agency should document the supporting information for this determination in their files. This documentation would typically demonstrate a lack of suitable habitat within the action area,

show that no impacts to suitable habitat would occur, or provide information that the species is not reasonably certain to occur in the action area even though suitable habitat is present.

In addition to the Indiana bat, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonia ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

#### **Additional Coordination**

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

## Action Description

You provided to IPaC the following name and description for the subject Action.

### 1. Name

9I3 Runway 7-25 Obstruction Removal

### 2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91617215,-83.2459848084232,14z>





## QUALIFICATION INTERVIEW

1. Does the project intersect the Indiana bat species list area?

**Automatically answered**

*Yes*

2. Will the proposed action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

*Yes*

3. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

*No*

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead Federal Agency for this action?

*No*

5. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

*Yes*

6. Will the proposed Action involve construction or operation of a wind turbines?

*No*

7. Will the proposed Action involve blasting, other than a fireworks display?

*No*

8. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

*No*

9. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

**Note:** For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

*No*

10. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge?

*No*

11. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

*No*

12. Will the proposed Action involve discharge of sediment into a stream?

*No*

13. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

No

14. Will the proposed project result in the removal of trees?

Yes

15. Did a **FWS-approved** habitat model applicable to the project site determine the project site to be of low probability for use by Indiana bats?

**Note:** This question will most commonly be answered "no." If the answer to this question is "yes", you will be required to upload your **Habitat Model Report**

No

16. Will the proposed project result in the removal of potentially suitable summer habitat for the Indiana bat?

Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag  $\geq 5$  inches diameter at breast height (dbh) (12.7 centimeter) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet (305 meters) of other forested/wooded habitat. See the Indiana Bat and Northern Long-eared Bat Survey Guidelines for additional description (<https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>).

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

Yes

17. Does the action area intersect known Indiana bat habitat in Kentucky?

**Automatically answered**

No

18. Will the proposed Action remove any suitable (primary or alternate) Indiana bat roost trees? *Suitable Indiana bat roost trees are live trees and/or snags  $\geq 5$  inches diameter at breast height (dbh) (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows.*

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

Yes

19. Will the proposed Action remove any suitable primary roost trees?

*Suitable Indiana bat primary maternity roost tree refers to a dead tree or snag that is nine inches or greater in diameter at breast height and has loose or exfoliating bark, cracks, crevices, and/or hollows. A live tree may also qualify if it contains hollows or dead portions with loose or exfoliating bark, cracks, and/or crevices.*

**Note:** If "no" upload a document with photos representative of the forested habitat to be removed.

Yes

20. If appropriate, would you like to conduct a voluntary emergence survey to determine if bats are using all of the suitable roost trees proposed for removal? *Emergence surveys require a surveyor to observe each suitable roost tree for the presence of bats. Surveys should follow the protocol in Appendix E in the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines at <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.*

No

21. Would you like to conduct a voluntary summer presence/absence survey (netting or acoustic) of the project area?

**Note:** If "yes" upload a survey proposal for the Field Office to review. Surveys should be conducted in accordance with the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines, found at <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>

No



## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0467 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)

In Reply Refer To:

03/02/2026 21:45:26 UTC

Project code: 2025-0104398

Project Name: 9I3 Runway 7-25 Obstruction Removal

Federal Nexus: yes

Federal Action Agency (if applicable): Federal Aviation Administration

**Subject:** Technical assistance for '9I3 Runway 7-25 Obstruction Removal'

Dear Garver LLC:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on March 02, 2026, for '9I3 Runway 7-25 Obstruction Removal' (here forward, Project). This project has been assigned Project Code 2025-0104398 and all future correspondence should clearly reference this number.

**Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

### **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

## Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

| Species                                                   | Listing Status         | Determination |
|-----------------------------------------------------------|------------------------|---------------|
| Northern Long-eared Bat ( <i>Myotis septentrionalis</i> ) | Endangered             | NLAA          |
| Tricolored Bat ( <i>Perimyotis subflavus</i> )            | Proposed<br>Endangered | NLAA          |

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

## Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

## Next Steps

Consultation with the Service is necessary. The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is incomplete and no project activities



should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **717-177560236**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
2. Review the answers to the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key to ensure that they are accurate.
3. Click on Review/ Finalize to convert the 'not likely to adversely affect' technical assistance letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Kentucky Ecological Services Field Office and reference Project Code 2025-0104398 associated with this Project.

**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

9I3 Runway 7-25 Obstruction Removal

**2. Description**

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.91617215,-83.2459848084232,14z>



## DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

## QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

**Automatically answered**

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

**Automatically answered**

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

**Note for projects in Pennsylvania:** Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer 'yes' to this question.

Yes



6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

**Note:** This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

**Automatically answered**

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Will the action cause effects to a bridge?

**Note:** Covered bridges should be considered as bridges in this question.

No

13. Will the action result in effects to a culvert or tunnel at any time of year?

No

14. Are trees present within 1000 feet of the action area?

**Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

15. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

16. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

17. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

**Note:** For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

22. Will the proposed action involve blasting or drilling?

No

23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

No

24. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

No

25. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

26. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No



27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

*Yes*

28. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

*No*

29. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

*No*

30. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

**Note:** A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

*No*

31. Does the project intersect with the 0- 9.9% forest density category?

**Automatically answered**

*No*

32. Does the project intersect with the 10.0- 19.9% forest density category map?

**Automatically answered**

*No*

33. Does the project intersect with the 20.0- 29.9% forest density category map?

**Automatically answered**

*No*

34. Does the project intersect with the 30.0- 100% forest density category map?

**Automatically answered**

*Yes*

35. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

*No*

36. Will the proposed action result in the use of prescribed fire?

**Note:** If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

*No*

37. Does the action area intersect the northern long-eared bat species list area?

**Automatically answered**

*Yes*

38. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

No

39. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

No

40. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

**Automatically answered**

No

41. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

If unsure, answer "Yes."

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

42. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's [Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

43. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags  $\geq 3$  inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

44. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's [Northern long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Development Projects](#).

No

45. Does the action area intersect the tricolored bat species list area?

**Automatically answered**

Yes

46. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

**Automatically answered**

No

47. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

No

48. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No



49. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."" )

**Note:** If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

50. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

51. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's [Northern Long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Developmental Projects](#).

No

52. Do you have any documents that you want to include with this submission?

No

## PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

3.5

## IPAC USER CONTACT INFORMATION

Agency: West Liberty city  
Name: Garver LLC  
Address: 4300 South J.B Hunt Drive, Suite 240  
Address Line 2: Suite 240  
City: Rogers  
State: AR  
Zip: 72758  
Email: arbiologist@garverusa.com  
Phone: 4792874628

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



Attachment C



Photo 1 – View of OW1. Downstream is to the right (southwest).

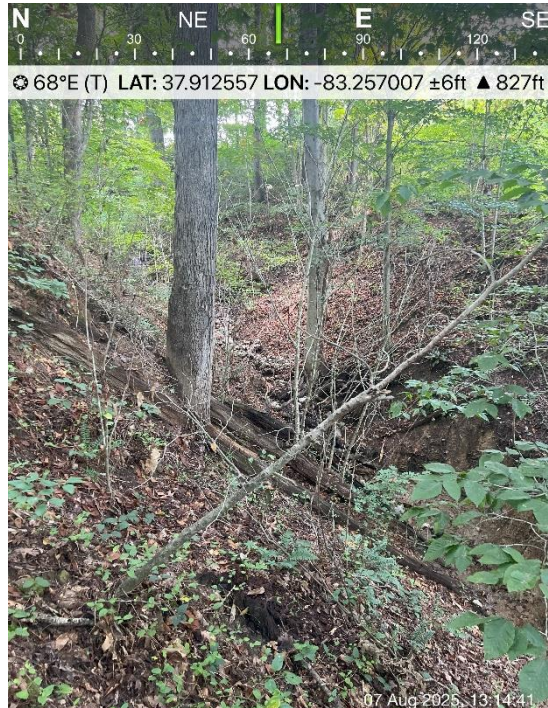


Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.

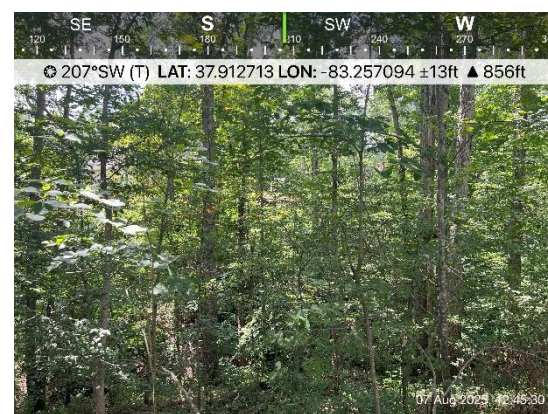


Photo 4 – View to the southwest of the Runway 7 end study area forested areas.



## Attachment C



Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 7 – View of the vegetation near trees 4, 5, and 6 within the Runway 25 end study area as shown in the Plan Layout. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, Nepalese browntop, deertounge, and sumac.

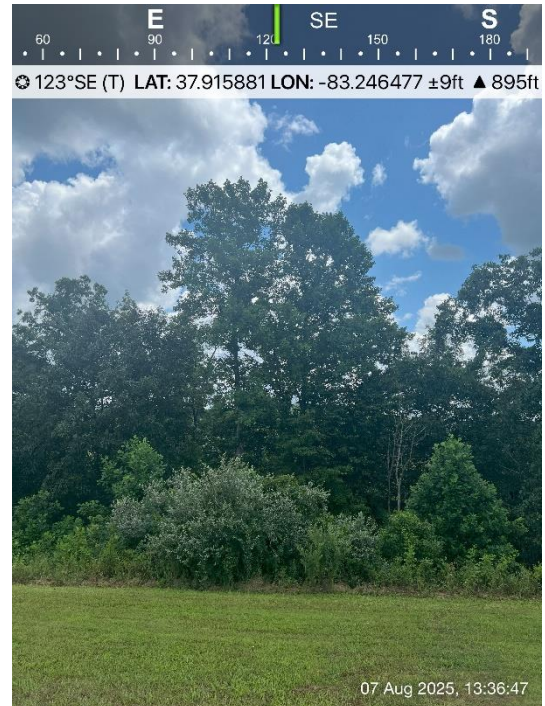


Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 as shown in the Plan Layout.

## Mountain, Ryan C.

---

**From:** DeGarmo, Phil <phil\_degarmo@fws.gov>  
**Sent:** Friday, May 1, 2026 1:15 PM  
**To:** Mountain, Ryan C.; lopa.naik@faa.gov  
**Subject:** Re: [EXTERNAL] RE: West Liberty Runway Obstruction project

**Categories:** Filed by Newforma

Thank you. Please retain these dkey responses as your concurrence from our office. No further coordination is required.

Sincerely,  
Phil DeGarmo  
USFWS Frankfort, KY

---

**From:** Mountain, Ryan C. <RCMountain@GarverUSA.com>  
**Sent:** Friday, May 1, 2026 2:11 PM  
**To:** DeGarmo, Phil <phil\_degarmo@fws.gov>; lopa.naik@faa.gov <lopa.naik@faa.gov>  
**Subject:** [EXTERNAL] RE: West Liberty Runway Obstruction project

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Phil,  
Thanks for your time this afternoon. Please see the attached updated Dkey results. Let me know if you have any questions.

Thanks!

**Ryan Mountain, PWS**  
Garver  
479-287-4628

---

**From:** DeGarmo, Phil <phil\_degarmo@fws.gov>  
**Sent:** Friday, May 1, 2026 12:05 PM  
**To:** lopa.naik@faa.gov  
**Cc:** Mountain, Ryan C. <RCMountain@GarverUSA.com>  
**Subject:** West Liberty Runway Obstruction project

I left a message for Lopa but wanted to follow up with an email. If someone could call me so I can go over the dkeys for Virginia big-eared bat and Indiana bat that would be great. I believe that a couple of those answers could be changed with clarification and then a NLAA would be rendered and coordination would be complete.

Thank you,



Phil DeGarmo  
USFWS Frankfort, KY  
502-229-8830

# **APPENDIX C**

## **Cultural Resources And Agency Coordination**



**ANDY BESHEAR**  
GOVERNOR

**TOURISM, ARTS AND HERITAGE CABINET**  
**KENTUCKY HERITAGE COUNCIL**  
**THE STATE HISTORIC PRESERVATION OFFICE**

**LINDY CASEBIER**  
SECRETARY

**JACQUELINE COLEMAN**  
LT. GOVERNOR

410 HIGH STREET  
FRANKFORT, KENTUCKY 40601  
(502) 564-7005  
[www.heritage.ky.gov](http://www.heritage.ky.gov)

**CRAIG A. POTTS**  
EXECUTIVE DIRECTOR &  
STATE HISTORIC PRESERVATION OFFICER

October 8, 2025

Jerry Mays, Airport Board Chairman  
West Liberty-Morgan County Airport Board  
450 Prestonburg Street  
West Liberty, KY 41472

RE: **Runway 7-25 Obstruction Removal, Focused Environmental Assessment request for information, West Liberty Airport, Morgan County, Kentucky**

Dear Mr. Mays,

Thank you for your digital submission of a letter, plans, and pictures for the above undertaking. We understand that the Federal Aviation Administration is the lead federal agency. Our office recognizes that the proposed project will consist of removing individual trees identified as obstructions at either end of Runway 7-25 to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations.

Based on the documentation provided, cultural resource survey is not warranted. In the unlikely event that human remains are found during construction for this project, work should cease immediately, and the county coroner and the Kentucky Heritage Council should be contacted.

We would concur with a determination of **No Historic Properties Affected** for this undertaking.

Should you have any questions or concerns, please feel free to contact Kimberly Busby or Ellis Codd of my staff at [kimberly.busby@ky.gov](mailto:kimberly.busby@ky.gov) or [ellis.codd@ky.gov](mailto:ellis.codd@ky.gov).

Sincerely,

Craig Potts  
Executive Director and  
State Historic Preservation Officer

KHC# 251977

CP: kb, ec

e.cc: Lopa Naik (FAA), Will Adams (Garver)



An Equal Opportunity Employer M/F/D



# **APPENDIX D**

## **Water Resources Review And Agency Coordination**



4300 South J.B. Hunt Dr.  
Suite 240  
Rogers, AR 72758  
TEL 479.257.9188  
[www.GarverUSA.com](http://www.GarverUSA.com)

---

September 9, 2025

Project File: 2402386

Re: West Liberty Airport – Obstruction Removal  
West Liberty, Morgan County, Kentucky  
Preliminary Wetland Delineation Technical Memo

This technical memorandum was prepared to document wetlands and streams within the project study area as noted below. Based on initial coordination with the U.S. Army Corps of Engineers (USACE), Louisville District, a Department of the Army (DA) permit application would be prepared if the project requires impacts to any waters of the U.S., including wetlands. No impacts to wetlands or streams are anticipated as no ground disturbance is proposed.

The West Liberty Airport (9I3) in West Liberty, Kentucky (**Figure 1**) is proposing a Runway 7-25 Obstruction Removal project. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in the attachments. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade.

Garver, LLC has been retained to conduct a wetland delineation and develop National Environmental Policy Act (NEPA) documents under direction of the Federal Aviation Administration (FAA), which is the lead federal agency. This wetland delineation report summarizes our investigation and documents our findings in support of the NEPA document.

### **Regulatory Basis**

Discharges of dredged or fill material into Waters of the United States are regulated under Section 404 of the Clean Water Act. Any such action proposed in wetlands or other Waters of the U.S. are subject to review by the U.S. Army Corps of Engineers (USACE) and other federal and state agencies and require authorization by USACE. For jurisdictional purposes, USACE and the U.S. Environmental Protection Agency (EPA) jointly define wetlands as follows: *Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas (USACE 1987).* Other Waters were those delineated watercourses (streams) that exhibited Ordinary High Water Marks (OHWMs).

### **Methodology**

The U.S. Fish and Wildlife Service (USFWS) in cooperation with Cowardin, et al. (1979), have identified a classification system that is widely accepted by the USACE in relation to classifying wetland and stream habitats (i.e., Classification of Wetlands and Deepwater Habitats of the United States). Any wetlands and streams in the study area have been identified utilizing the methodology presented in this classification

system. Observation data points (OBs) were collected at 2 locations to document the wetland and upland characteristics observed on the site. No formal data points for wetland determinations were made; however, observation points documented vegetation and surface hydrology in accordance with the routine approach described in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont (Version 2.0).

Prior to the site visit, Garver performed a desktop review of the approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures). The review included the USFWS National Wetlands Inventory (NWI), U.S. Geological Survey (USGS) topographic quadrangle maps, light detection and ranging (LiDAR) GIS data, and the National Hydrography Database (NHD) for the presence of streams and other waterbodies. Federal Emergency Management Agency (FEMA) Floodplain data and Natural Resources Conservation Service (NRCS) soil data were also reviewed. According to the NRCS Web Soil Survey, three soil map units exist within the study area. Marrowbone-Gilpin-Latham complex, 15 to 30 percent slopes, Shelocta-Gilpin complex, 20 to 65 percent slopes, and Udorthents, 0 to 6 percent slopes are described by NRCS as moderately to well drained and non-hydric (**Figure 3**). The NWI Mapper exhibited no wetlands or streams within the study area (**Figure 4**). A very small amount of FEMA floodplains are present in the study area but will not be affected by the project (**Figure 5**).

A site visit was conducted August 7, 2025. According to the nearest weather station (US1KYFY0046) located at Lexington International Airport (LEX), 1.86 inches of rain occurred within the previous week of the site visit; however, a total of 2.31 inches of rain occurred within the previous 2 weeks. Much of both ends of the runway have experienced historic disturbance with the exception of the mature forested areas from which most of the tree clearing will occur. This and other historic development (i.e., roads and residences) may have altered natural hydrology in the area. The topography at both ends of the runway is very steep and not conducive to wetland formation but does include one ephemeral stream. The current conditions on the site appeared to be normal for maintained airport property and residential areas, and undeveloped forested areas on steep slopes.

## **Results**

No wetlands (W) and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (**Figure 6**). OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks (OHWMs) characterized by lack of vegetation and due to flashy flows. OW 1 is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area. The stream reach appears to begin adjacent to Dogwood Lane and continues outside the study area before coming back into the study area due to the shape of the study area. The stream substrate consists of a mix of smaller gravel with larger cobble located upstream, and the average OHWMs are 4 feet wide by 4 to 6 inches deep. No pools or flow were observed within the stream reach. Riparian vegetation included white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipifera*), dogwood (*Cornus* species), hornbeam (*Carpinus caroliniana*), sugar maple (*Acer saccharum*), and christmas fern (*Polystichum acrostichoides*). Approximately 250 LF or 0.023 ac of OW 1 occur in the study area.





Photo 1 – View of OW1. Downstream is to the right (southwest). Area of OB 1.



Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.



Photo 4 – View to the southwest of the Runway 7 end study area forested areas.





Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 7 – View to the vegetation near trees 4, 5, and 6 (OB 2) within the Runway 25 end study area. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, napalese browntop, deertounge, and sumac.

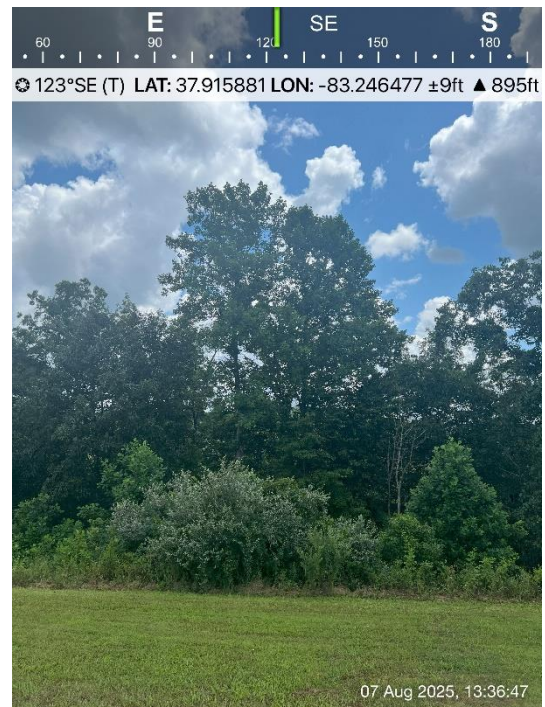


Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 are located from Figure 2. This is the area of OB 2.

**Conclusion**

As described in this report, a total of 250 LF or 0.023 ac of other waters were identified within the Runway 7 end study area. No wetlands or other waters were observed within the Runway 25 end study area. Based on initial coordination with the USACE (see attached) a DA permit application would be prepared if the project requires impacts to any waters of the U.S., including wetlands. As no ground disturbance is proposed with this undertaking, no Section 404 permit will be required. Trees felled will remain in uplands or removed.

Enclosed with this wetland report are several attachments to document our findings, including site maps, data forms, and weather data.

GARVER

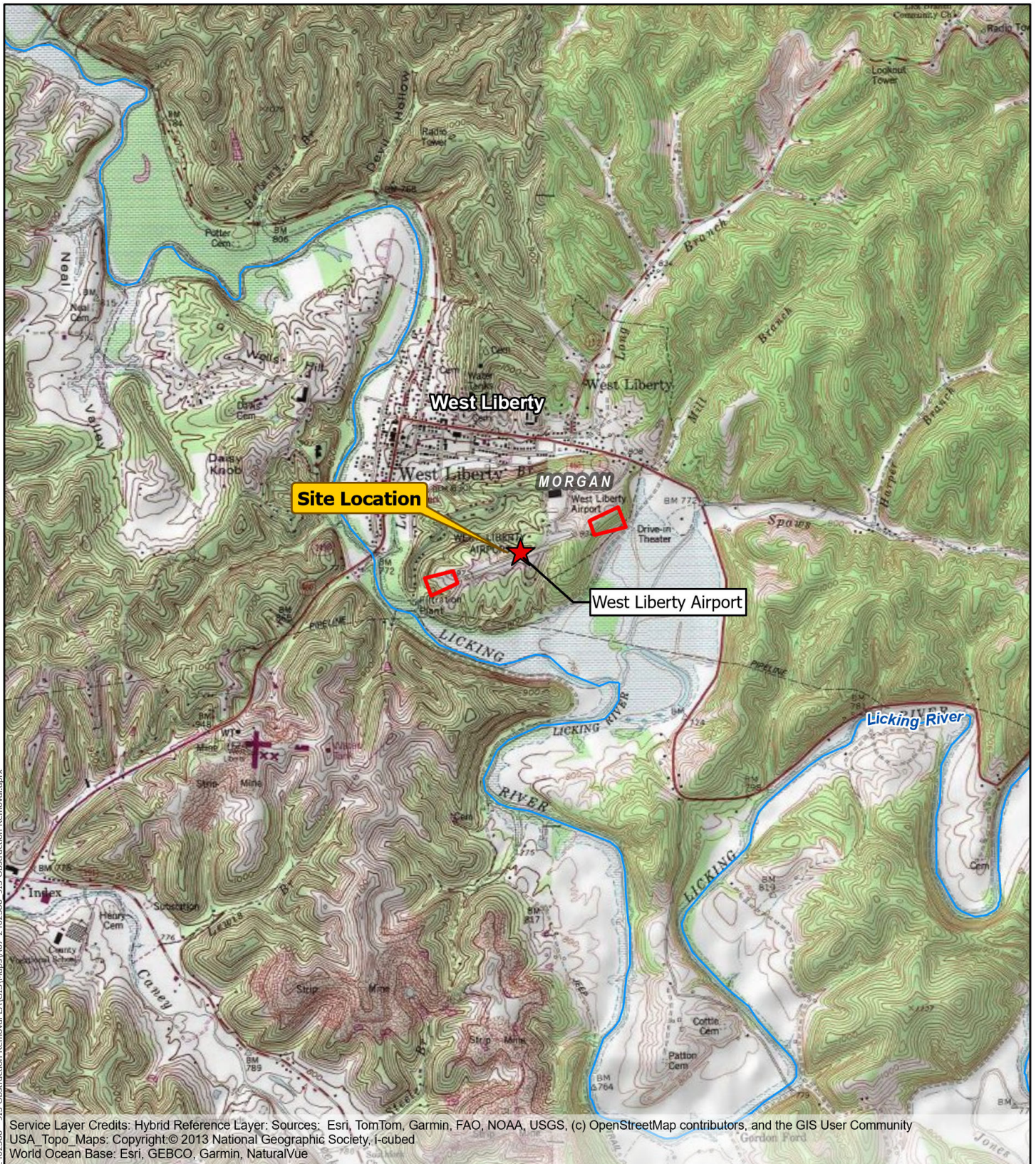


Ryan Mountain, PWS  
Environmental Project Manager

cc: Will Adams, PE – Garver

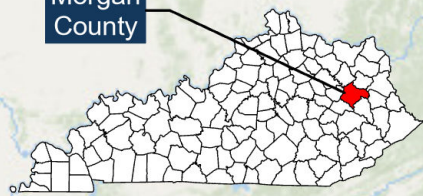
Attachments:      Figure 1 – Site Location Map  
                         Figure 2 – Project Layout  
                         Figure 3 – NRCS Soils Information  
                         Figure 4 – USFWS NWI Map  
                         Figure 5 – FEMA Map  
                         Figure 6 – Aquatic Resources Map  
                         Observation Data Forms  
                         Weather Data and ATP Results  
                         USACE Initial Response





Service Layer Credits: Hybrid Reference Layer: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community  
USA Topo Maps: Copyright© 2013 National Geographic Society, i-cubed  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

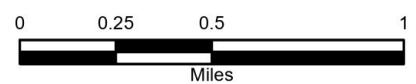
Morgan  
County



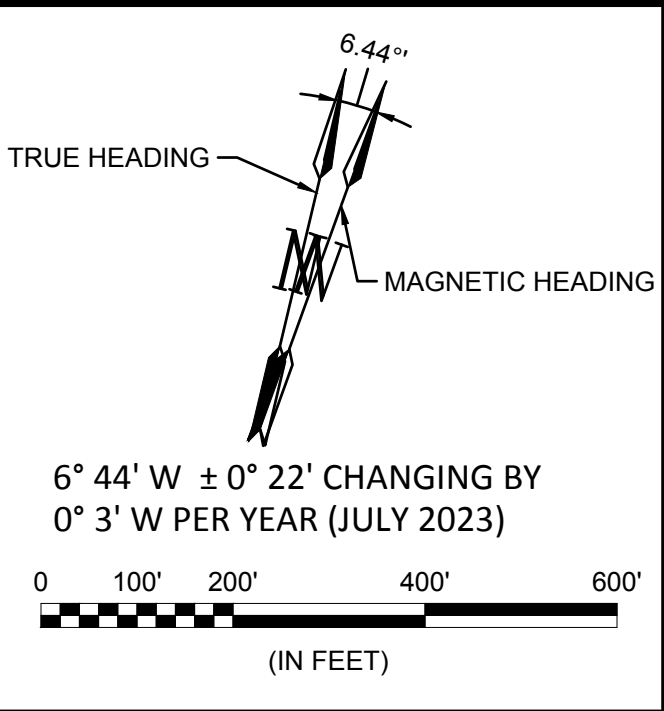
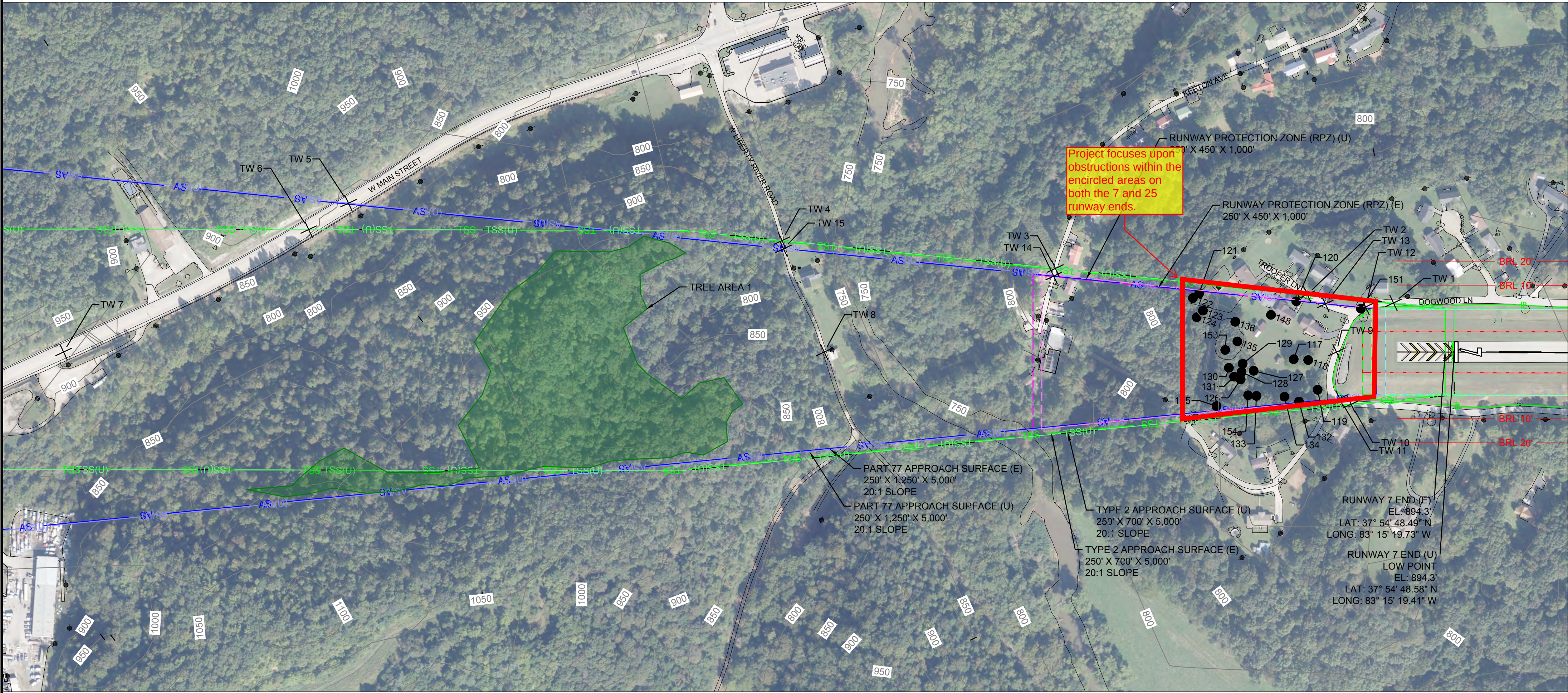
- ★ Site Location
- APE/Direct Study Area

## APPENDIX A - SITE LOCATION MAP

### West Liberty Airport (9I3) Runway 7-25 Obstruction Removal



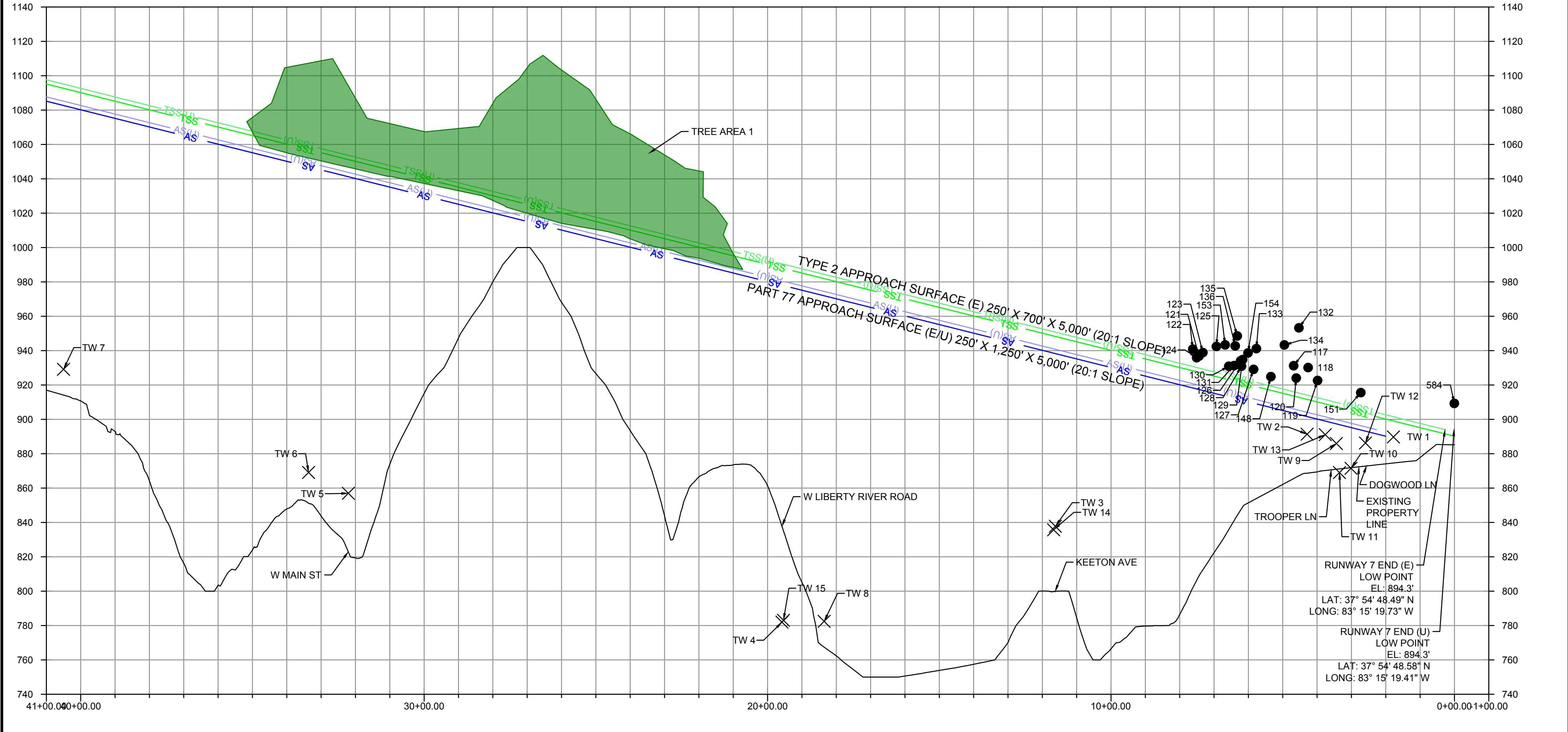




- NOTES:
1. VERTICAL EXAGGERATION IS 5' IN THE PROFILE.
  2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
  3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
  4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
  5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
  6. TW STAND FOR TRAVERSE WAY.
  7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

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|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
| TITLE: AIRPORT SPONSOR'S REPRESENTATIVE                                                          |      |
| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

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|             |  |  |  |  |
|-------------|--|--|--|--|
| BY          |  |  |  |  |
| DESCRIPTION |  |  |  |  |
| DATE        |  |  |  |  |
| REV         |  |  |  |  |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

Inner Portion of  
Approach Surface  
Drawing 7

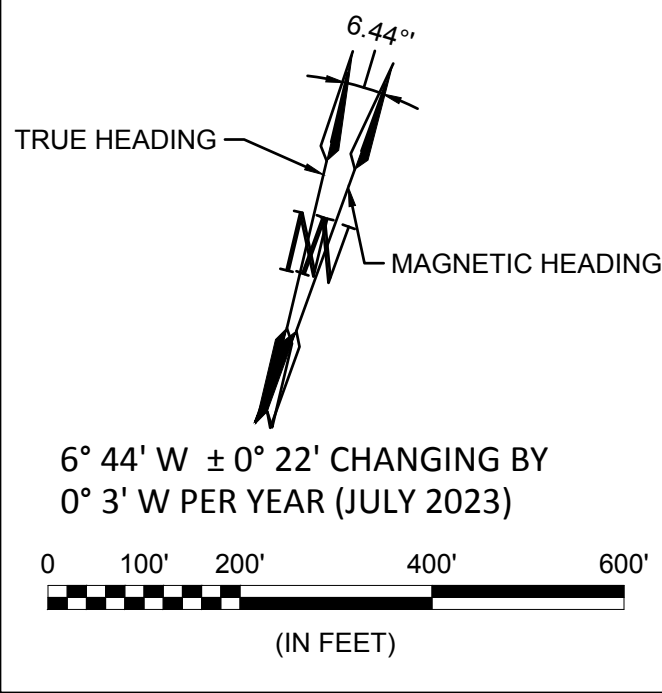
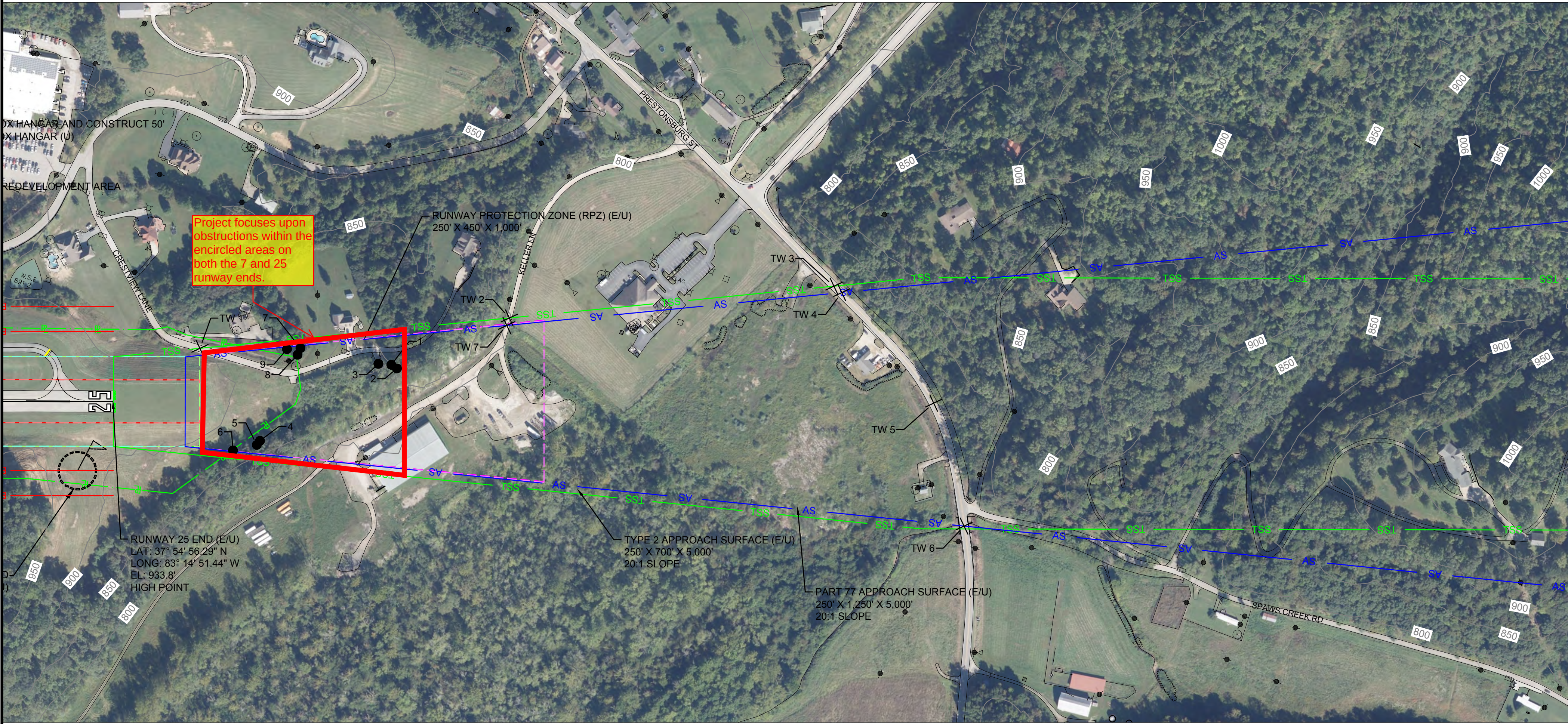
JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT  
LAYOUT EXHIBIT (RW 7 END)

SHEET  
NUMBER





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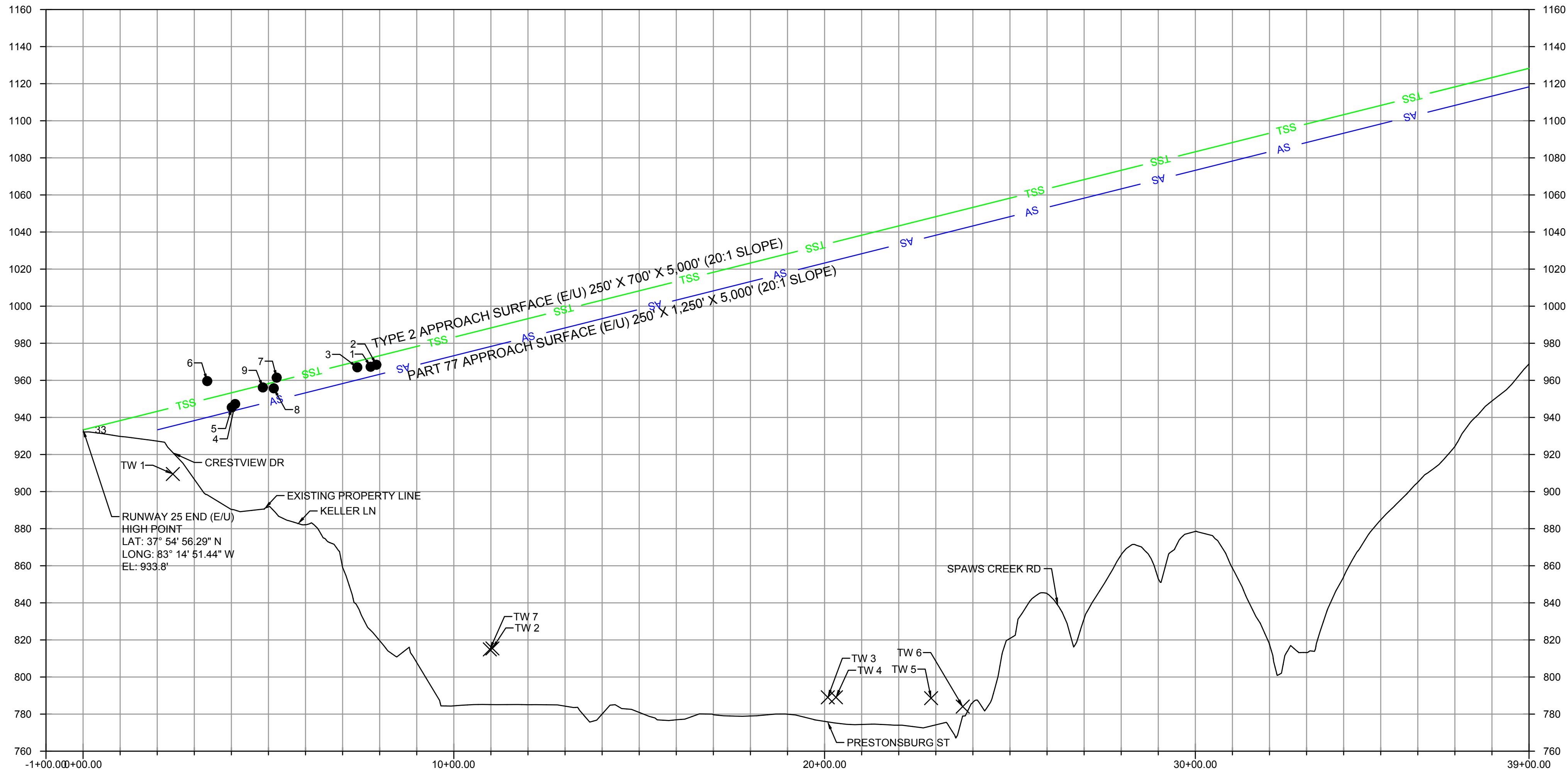
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NOTES:

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|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| AIRPORT SPONSOR BLOCK                                                                            |      |
| CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR |      |
| TITLE: AIRPORT SPONSOR'S REPRESENTATIVE                                                          |      |
| SIGNATURE                                                                                        | DATE |
| FEDERAL AVIATION ADMINISTRATION<br>APPROVAL BLOCK                                                |      |



| LEGEND                                   |          |          |
|------------------------------------------|----------|----------|
| ITEM                                     | EXISTING | ULTIMATE |
| BUILDING RESTRICTION LINE                | BRL 35'  | BRL 35'  |
| AIRPORT PROPERTY LINE                    | P        | P(U)     |
| FENCE                                    | X        | XX       |
| AIRFIELD PAVEMENT                        |          |          |
| PAVEMENT REMOVAL                         |          |          |
| BEACON                                   | ★        | ★        |
| FUEL STORAGE AND PUMPS                   |          | SAME     |
| BUILDINGS                                |          |          |
| LIGHTED WIND CONE & SEGMENTED CIRCLE     |          |          |
| AWOS                                     |          |          |
| GROUND CONTOURS                          | 680      | SAME     |
| PRECISION APPROACH PATH INDICATOR (PAPI) |          |          |
| THRESHOLD LIGHTS                         |          |          |
| RUNWAY PROTECTION ZONE (RPZ)             |          |          |
| RUNWAY SAFETY AREA (RSA)                 |          |          |
| RUNWAY OBJECT FREE AREA (OFA)            |          |          |
| RUNWAY OBSTACLE FREE ZONE (OFZ)          |          |          |
| TAXIWAY SAFETY AREA (TSA)                |          | SAME     |
| TAXIWAY OBJECT FREE AREA (TOFA)          |          | SAME     |
| PART 77 APPROACH SURFACE                 | AS       | AS (U)   |
| DEPARTURE SURFACE                        | DEP      | DEP (U)  |
| GLIDE SLOPE QUALIFICATION SURFACE        | VGS      | VGS (U)  |
| THRESHOLD SITING SURFACE                 | TSS      | TSS (U)  |
| HOLDLINES & SIGNS                        |          |          |
| AIRPORT REFERENCE POINT (ARP)            |          |          |
| VEGETATION                               |          | SAME     |

WEST LIBERTY AIRPORT  
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT  
LAYOUT PLAN

Inner Portion of  
Approach Surface  
Drawing 25

JOB NO.: 21A14220  
DATE: AUGUST 2023  
DESIGNED BY: NRP  
DRAWN BY: JLL

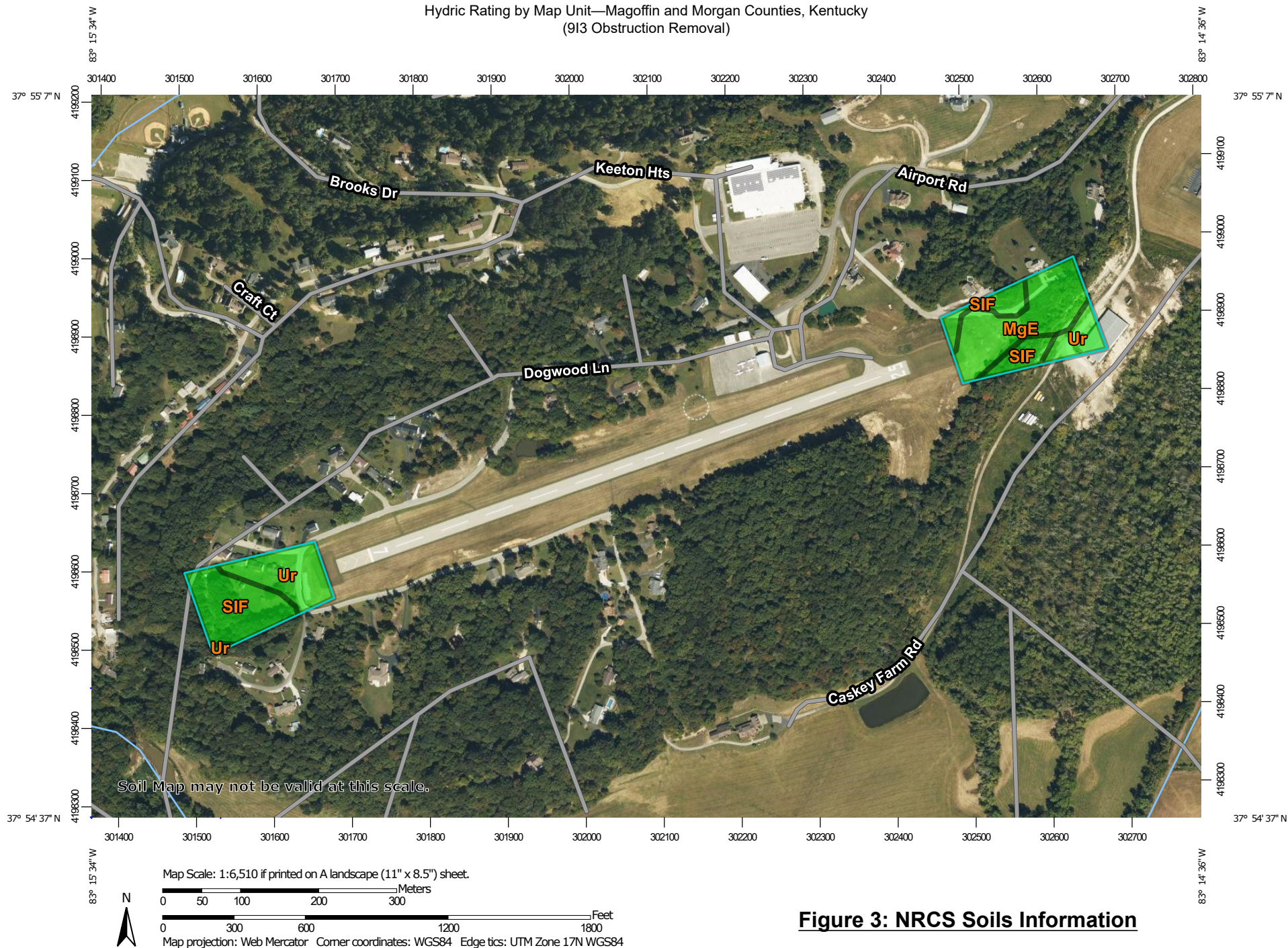
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APPENDIX A - PROJECT  
LAYOUT EXHIBIT  
(RW 25 END)

SHEET  
NUMBER



# Hydric Rating by Map Unit—Magoffin and Morgan Counties, Kentucky (913 Obstruction Removal)



**Figure 3: NRCS Soils Information**



**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

8/31/2025  
Page 1 of 5

Hydric Rating by Map Unit—Magoffin and Morgan Counties, Kentucky  
(913 Obstruction Removal)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

 Hydric (100%)  
 Hydric (66 to 99%)  
 Hydric (33 to 65%)  
 Hydric (1 to 32%)  
 Not Hydric (0%)  
 Not rated or not available

#### Soil Rating Lines

 Hydric (100%)  
 Hydric (66 to 99%)  
 Hydric (33 to 65%)  
 Hydric (1 to 32%)  
 Not Hydric (0%)  
 Not rated or not available

#### Soil Rating Points

 Hydric (100%)  
 Hydric (66 to 99%)  
 Hydric (33 to 65%)  
 Hydric (1 to 32%)  
 Not Hydric (0%)  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Magoffin and Morgan Counties, Kentucky  
 Survey Area Data: Version 20, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 29, 2019—Sep 15, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## Hydric Rating by Map Unit

| Map unit symbol                    | Map unit name                                             | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|-----------------------------------------------------------|--------|--------------|----------------|
| MgE                                | Marrowbone-Gilpin-Latham complex, 15 to 30 percent slopes | 0      | 2.9          | 32.7%          |
| SIF                                | Shelocta-Gilpin complex, 20 to 65 percent slopes, stony   | 0      | 3.5          | 39.0%          |
| Ur                                 | Udorthents, loamy, 0 to 6 percent slopes                  | 0      | 2.5          | 28.3%          |
| <b>Totals for Area of Interest</b> |                                                           |        | <b>8.9</b>   | <b>100.0%</b>  |



U.S. Fish and Wildlife Service

# National Wetlands Inventory

Figure 4: USFWS NWI Map  
(RW 7 End)



May 29, 2025

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





U.S. Fish and Wildlife Service

# National Wetlands Inventory

**Figure 4: USFWS NWI Map  
(RW 25 End)**



May 29, 2025

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

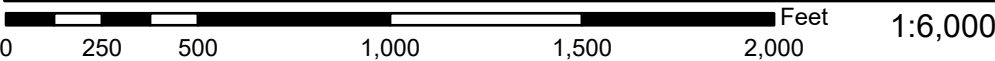


# National Flood Hazard Layer FIRMMette



Figure 5: FEMA Map (RW 7 End)

83°15'45"W 37°55'N



Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |                                                                                                                                                                   |
|-----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99                                                                                                              |
|                             |  | With BFE or Depth Zone AE, AO, AH, VE, AR                                                                                                                         |
|                             |  | Regulatory Floodway                                                                                                                                               |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard Zone X                                                                                                            |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X                                                                                                      |
|                             |  | Area with Flood Risk due to Levee Zone D                                                                                                                          |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X                                                                                                                     |
|                             |  | Effective LOMRs                                                                                                                                                   |
| GENERAL STRUCTURES          |  | Area of Undetermined Flood Hazard Zone D                                                                                                                          |
|                             |  | Channel, Culvert, or Storm Sewer                                                                                                                                  |
|                             |  | Levee, Dike, or Floodwall                                                                                                                                         |
|                             |  | Cross Sections with 1% Annual Chance Water Surface Elevation                                                                                                      |
|                             |  | Coastal Transect                                                                                                                                                  |
|                             |  | Base Flood Elevation Line (BFE)                                                                                                                                   |
|                             |  | Limit of Study                                                                                                                                                    |
|                             |  | Jurisdiction Boundary                                                                                                                                             |
| OTHER FEATURES              |  | Coastal Transect Baseline                                                                                                                                         |
|                             |  | Profile Baseline                                                                                                                                                  |
|                             |  | Hydrographic Feature                                                                                                                                              |
|                             |  | Digital Data Available                                                                                                                                            |
|                             |  | No Digital Data Available                                                                                                                                         |
| MAP PANELS                  |  | Unmapped                                                                                                                                                          |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/29/2025 at 5:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



# National Flood Hazard Layer FIRMMette



Figure 5: FEMA Map (RW 25 End)

83°15'4"W 37°55'13"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

83°14'27"W 37°54'44"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |                                                                                                                                                                   |
|-----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99                                                                                                              |
|                             |  | With BFE or Depth Zone AE, AO, AH, VE, AR                                                                                                                         |
|                             |  | Regulatory Floodway                                                                                                                                               |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard Zone X                                                                                                            |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X                                                                                                      |
|                             |  | Area with Flood Risk due to Levee Zone D                                                                                                                          |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X                                                                                                                     |
|                             |  | Effective LOMRs                                                                                                                                                   |
|                             |  | Area of Undetermined Flood Hazard Zone D                                                                                                                          |
| GENERAL STRUCTURES          |  | Channel, Culvert, or Storm Sewer                                                                                                                                  |
|                             |  | Levee, Dike, or Floodwall                                                                                                                                         |
| OTHER FEATURES              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation                                                                                                 |
|                             |  | 17.5 Coastal Transect                                                                                                                                             |
|                             |  | Base Flood Elevation Line (BFE)                                                                                                                                   |
|                             |  | Limit of Study                                                                                                                                                    |
|                             |  | Jurisdiction Boundary                                                                                                                                             |
|                             |  | Coastal Transect Baseline                                                                                                                                         |
|                             |  | Profile Baseline                                                                                                                                                  |
| MAP PANELS                  |  | Digital Data Available                                                                                                                                            |
|                             |  | No Digital Data Available                                                                                                                                         |
|                             |  | Unmapped                                                                                                                                                          |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/29/2025 at 5:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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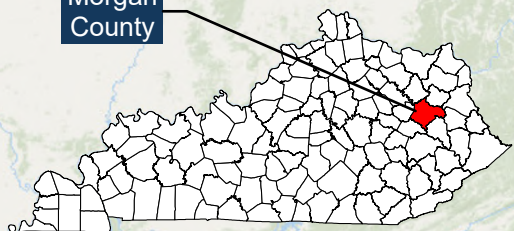


Path: L:\2024\A07-2402386 - 913 Obstruction Removal EA\GIS Maps\A07-2402386 - 913 Obstruction Removal.aprx



Service Layer Credits: World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

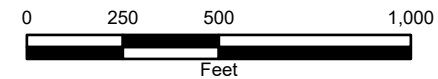
Morgan County



-  Direct Study Area
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Riverine
-  River

**Figure 6: Aquatic Resources**

**913 Obstruction Removal  
Morgan County, Kentucky**





|                                                                                                                                                                                  |                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. Army Corps of Engineers</b><br><b>WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region</b><br>See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R | <b>OMB Control #: 0710-0024, Exp: 9/30/2027</b><br><b>Requirement Control Symbol EXEMPT:</b><br><b>(Authority: AR 335-15, paragraph 5-2a)</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

Project/Site: 9I3 Obstruction Removal City/County: West Liberty / Morgan Sampling Date: 8/7/2025

Applicant/Owner: West Liberty Airport State: KY Sampling Point: OB 1

Investigator(s): Ryan Mountain Section, Township, Range: \_\_\_\_\_

Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Convex Slope (%): 25

Subregion (LRR or MLRA): LRR N, MLRA 124 Lat: 37.912703° Long: -83.256754° Datum: WGS 1984

Soil Map Unit Name: Shelocta-Gilpin Complex, 20 to 65 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

|                                                                                                                                                         |                                                                                                                                                                                                                                                            |                                              |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u><br>Hydric Soil Present? Yes _____ No <u>X</u><br>Wetland Hydrology Present? Yes _____ No <u>X</u> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;"> <b>Is the Sampled Area within a Wetland?</b> </td> <td style="width: 40%; padding: 5px;"> <b>Yes _____ No <u>X</u></b> </td> </tr> </table> | <b>Is the Sampled Area within a Wetland?</b> | <b>Yes _____ No <u>X</u></b> |
| <b>Is the Sampled Area within a Wetland?</b>                                                                                                            | <b>Yes _____ No <u>X</u></b>                                                                                                                                                                                                                               |                                              |                              |
| Remarks:<br>Site does not meet all three wetland criteria. Antecedent precipitation tool indicated wetter than normal conditions.                       |                                                                                                                                                                                                                                                            |                                              |                              |

**HYDROLOGY**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Surface Water (A1)<br/> <input type="checkbox"/> High Water Table (A2)<br/> <input type="checkbox"/> Saturation (A3)<br/> <input type="checkbox"/> Water Marks (B1)<br/> <input type="checkbox"/> Sediment Deposits (B2)<br/> <input type="checkbox"/> Drift Deposits (B3)<br/> <input type="checkbox"/> Algal Mat or Crust (B4)<br/> <input type="checkbox"/> Iron Deposits (B5)<br/> <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br/> <input type="checkbox"/> Water-Stained Leaves (B9)<br/> <input type="checkbox"/> Aquatic Fauna (B13)         </div> <div style="width: 50%;"> <input type="checkbox"/> True Aquatic Plants (B14)<br/> <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br/> <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br/> <input type="checkbox"/> Presence of Reduced Iron (C4)<br/> <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br/> <input type="checkbox"/> Thin Muck Surface (C7)<br/> <input type="checkbox"/> Other (Explain in Remarks)         </div> </div> | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input type="checkbox"/> FAC-Neutral Test (D5) |                                   |                              |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____<br>Water Table Present? Yes _____ No _____ Depth (inches): _____<br>Saturation Present? Yes _____ No _____ Depth (inches): _____<br>(includes capillary fringe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;"> <b>Wetland Hydrology Present?</b> </td> <td style="width: 40%; padding: 5px;"> <b>Yes _____ No <u>X</u></b> </td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Wetland Hydrology Present?</b> | <b>Yes _____ No <u>X</u></b> |
| <b>Wetland Hydrology Present?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Yes _____ No <u>X</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                              |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                              |
| Remarks:<br>Site does not meet hydrology criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                              |

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: OB 1

| Tree Stratum (Plot size: <u>30'</u> )                                                                                | Absolute % Cover | Dominant Species? | Indicator Status |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Quercus alba</u>                                                                                               | 50               | Yes               | FACU             | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)                                                                                                                                                                                                                                                     |
| 2. <u>Fagus grandifolia</u>                                                                                          | 20               | Yes               | FACU             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 70 = Total Cover                                                                                                     |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____                                                                                                                                                                                      |
| 50% of total cover: <u>35</u> 20% of total cover: <u>14</u>                                                          |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                      |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sapling/Shrub Stratum (Plot size: <u>15</u> )                                                                        |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</u><br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.                 |
| 1. <u>Fagus grandifolia</u>                                                                                          | 50               | Yes               | FACU             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50 = Total Cover                                                                                                     |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: <u>25</u> 20% of total cover: <u>10</u>                                                          |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Herb Stratum (Plot size: <u>5'</u> )                                                                                 |                  |                   |                  | <b>Definitions of Four Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody Vine</b> – All woody vines greater than 3.28 ft in height. |
| 1. <u>Polystichum acrostichoides</u>                                                                                 | 5                | Yes               | FACU             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5 = Total Cover                                                                                                      |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: <u>3</u> 20% of total cover: <u>1</u>                                                            |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Woody Vine Stratum (Plot size: <u>30</u> )                                                                           |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| = Total Cover                                                                                                        |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: _____ 20% of total cover: _____                                                                  |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarks: (Include photo numbers here or on a separate sheet.)<br>Site does not meet hydrophytic vegetation criteria. |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



## SOIL

Sampling Point: OB 1

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |   |                |   |                   |                  |         |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|---|----------------|---|-------------------|------------------|---------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |   | Redox Features |   |                   |                  | Texture | Remarks |
|                                                                                                                     | Color (moist) | % | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydric Soil Indicators:</b><br><input type="checkbox"/> Histosol (A1)<br><input type="checkbox"/> Histic Epipedon (A2)<br><input type="checkbox"/> Black Histic (A3)<br><input type="checkbox"/> Hydrogen Sulfide (A4)<br><input type="checkbox"/> Stratified Layers (A5)<br><input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR N</b> )<br><input type="checkbox"/> Depleted Below Dark Surface (A11)<br><input type="checkbox"/> Thick Dark Surface (A12)<br><input type="checkbox"/> Iron Monosulfide (A18)<br><input type="checkbox"/> Sandy Mucky Mineral (S1)<br><input type="checkbox"/> Sandy Gleyed Matrix (S4)<br><input type="checkbox"/> Sandy Redox (S5)<br><input type="checkbox"/> Stripped Matrix (S6)<br><input type="checkbox"/> Dark Surface (S7) | <input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Thin Dark Surface (S9) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>MLRA 136</b> )<br><input type="checkbox"/> Loamy Gleyed Matrix (F2)<br><input type="checkbox"/> Depleted Matrix (F3)<br><input type="checkbox"/> Redox Dark Surface (F6)<br><input type="checkbox"/> Depleted Dark Surface (F7)<br><input type="checkbox"/> Redox Depressions (F8)<br><input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR N, MLRA 136</b> )<br><input type="checkbox"/> Umbric Surface (F13) ( <b>MLRA 122, 136</b> )<br><input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 148</b> )<br><input type="checkbox"/> Red Parent Material (F21) ( <b>MLRA 127, 147, 148</b> ) | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b><br><input type="checkbox"/> 2 cm Muck (A10) ( <b>MLRA 147</b> )<br><input type="checkbox"/> Coast Prairie Redox (A16) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 136, 147</b> )<br><input type="checkbox"/> Red Parent Material (F21) ( <b>outside MLRA 127, 147, 148</b> )<br><input type="checkbox"/> Very Shallow Dark Surface (F22)<br><input type="checkbox"/> Other (Explain in Remarks) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

|                                                                                 |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Restrictive Layer (if observed):</b><br>Type: _____<br>Depth (inches): _____ | Hydric Soil Present?      Yes _____ No <u>X</u> |
|---------------------------------------------------------------------------------|-------------------------------------------------|

Remarks:  
 No soil pit dug. The area did not meet surface hydrology or hydrophytic plant criteria.

|                                                                                                                                                                                  |                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. Army Corps of Engineers</b><br><b>WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region</b><br>See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R | <b>OMB Control #: 0710-0024, Exp: 9/30/2027</b><br><b>Requirement Control Symbol EXEMPT:</b><br><b>(Authority: AR 335-15, paragraph 5-2a)</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

Project/Site: 9I3 Obstruction Removal City/County: West Liberty / Morgan Sampling Date: 8/7/2025  
Applicant/Owner: West Liberty Airport State: KY Sampling Point: OB 2  
Investigator(s): Ryan Mountain Section, Township, Range: \_\_\_\_\_  
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Convex Slope (%): 25  
Subregion (LRR or MLRA): LRR N, MLRA 124 Lat: 37.915837 Long: -83.246202 Datum: WGS 1984  
Soil Map Unit Name: Marrowbone-Gilpin-Latham Complex, 15 to 30 percent slopes NWI classification: n/a  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

|                                                                                                                                   |                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u>                                                                             | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u> |
| Hydric Soil Present? Yes _____ No _____                                                                                           |                                                                    |
| Wetland Hydrology Present? Yes _____ No <u>X</u>                                                                                  |                                                                    |
| Remarks:<br>Site does not meet all three wetland criteria. Antecedent precipitation tool indicated wetter than normal conditions. |                                                                    |

**HYDROLOGY**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br>____ Surface Water (A1)      ____ True Aquatic Plants (B14)<br>____ High Water Table (A2)      ____ Hydrogen Sulfide Odor (C1)<br>____ Saturation (A3)      ____ Oxidized Rhizospheres on Living Roots (C3)<br>____ Water Marks (B1)      ____ Presence of Reduced Iron (C4)<br>____ Sediment Deposits (B2)      ____ Recent Iron Reduction in Tilled Soils (C6)<br>____ Drift Deposits (B3)      ____ Thin Muck Surface (C7)<br>____ Algal Mat or Crust (B4)      ____ Other (Explain in Remarks)<br>____ Iron Deposits (B5)<br>____ Inundation Visible on Aerial Imagery (B7)<br>____ Water-Stained Leaves (B9)<br>____ Aquatic Fauna (B13) | <u>Secondary Indicators (minimum of two required)</u><br>____ Surface Soil Cracks (B6)<br>____ Sparsely Vegetated Concave Surface (B8)<br>____ Drainage Patterns (B10)<br>____ Moss Trim Lines (B16)<br>____ Dry-Season Water Table (C2)<br>____ Crayfish Burrows (C8)<br>____ Saturation Visible on Aerial Imagery (C9)<br>____ Stunted or Stressed Plants (D1)<br>____ Geomorphic Position (D2)<br>____ Shallow Aquitard (D3)<br>____ Microtopographic Relief (D4)<br>____ FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____<br>Water Table Present? Yes _____ No _____ Depth (inches): _____<br>Saturation Present? Yes _____ No _____ Depth (inches): _____<br>(includes capillary fringe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Remarks:<br>Site does not meet hydrology criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: OB 2

| Tree Stratum (Plot size: <u>30'</u> )                                                                                | Absolute % Cover | Dominant Species? | Indicator Status |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <u>Liriodendron tulipifera</u>                                                                                    | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)                                                                                                                                                                                                                                            |
| 2. <u>Cercis canadensis</u>                                                                                          | <u>15</u>        | <u>Yes</u>        | <u>FACU</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>35</u> =Total Cover                                                                                               |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____                                                                                                                                                                      |
| 50% of total cover: <u>18</u> 20% of total cover: <u>7</u>                                                           |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                      |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sapling/Shrub Stratum (Plot size: <u>15</u> )                                                                        |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>Problematic Hydrophytic Vegetation</u> <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.        |
| 1. <u>Rhus glabra</u>                                                                                                | <u>25</u>        | <u>Yes</u>        | <u>UPL</u>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>25</u> =Total Cover                                                                                               |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: <u>13</u> 20% of total cover: <u>5</u>                                                           |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Herb Stratum (Plot size: <u>5'</u> )                                                                                 |                  |                   |                  | <b>Definitions of Four Vegetation Strata:</b><br><b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><b>Woody Vine</b> – All woody vines greater than 3.28 ft in height. |
| 1. <u>Sorghum halapense</u>                                                                                          | <u>20</u>        | <u>No</u>         | <u>FACU</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. <u>Apocynum cannabinum</u>                                                                                        | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. <u>Microstegium vimineum</u>                                                                                      | <u>30</u>        | <u>Yes</u>        | <u>FAC</u>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. <u>Dichanthelium clandestinum</u>                                                                                 | <u>30</u>        | <u>Yes</u>        | <u>FAC</u>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. <u>Desmodium paniculatum</u>                                                                                      | <u>20</u>        | <u>No</u>         | <u>FACU</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10. _____                                                                                                            | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>110</u> =Total Cover                                                                                              |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: <u>55</u> 20% of total cover: <u>22</u>                                                          |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Woody Vine Stratum (Plot size: <u>30</u> )                                                                           |                  |                   |                  | <b>Hydrophytic Vegetation</b><br><b>Present?</b> Yes _____ No <u>X</u>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. <u>Lonicera japonica</u>                                                                                          | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2. <u>Vitis cinerea</u>                                                                                              | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. _____                                                                                                             | _____            | _____             | _____            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>30</u> =Total Cover                                                                                               |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 50% of total cover: <u>15</u> 20% of total cover: <u>6</u>                                                           |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarks: (Include photo numbers here or on a separate sheet.)<br>Site does not meet hydrophytic vegetation criteria. |                  |                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## SOIL

Sampling Point: OB 2

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |   |                |   |                   |                  |         |         |
|---------------------------------------------------------------------------------------------------------------------|---------------|---|----------------|---|-------------------|------------------|---------|---------|
| Depth<br>(inches)                                                                                                   | Matrix        |   | Redox Features |   |                   |                  | Texture | Remarks |
|                                                                                                                     | Color (moist) | % | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |
|                                                                                                                     |               |   |                |   |                   |                  |         |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydric Soil Indicators:</b><br><input type="checkbox"/> Histosol (A1)<br><input type="checkbox"/> Histic Epipedon (A2)<br><input type="checkbox"/> Black Histic (A3)<br><input type="checkbox"/> Hydrogen Sulfide (A4)<br><input type="checkbox"/> Stratified Layers (A5)<br><input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR N</b> )<br><input type="checkbox"/> Depleted Below Dark Surface (A11)<br><input type="checkbox"/> Thick Dark Surface (A12)<br><input type="checkbox"/> Iron Monosulfide (A18)<br><input type="checkbox"/> Sandy Mucky Mineral (S1)<br><input type="checkbox"/> Sandy Gleyed Matrix (S4)<br><input type="checkbox"/> Sandy Redox (S5)<br><input type="checkbox"/> Stripped Matrix (S6)<br><input type="checkbox"/> Dark Surface (S7) | <input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Thin Dark Surface (S9) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>MLRA 136</b> )<br><input type="checkbox"/> Loamy Gleyed Matrix (F2)<br><input type="checkbox"/> Depleted Matrix (F3)<br><input type="checkbox"/> Redox Dark Surface (F6)<br><input type="checkbox"/> Depleted Dark Surface (F7)<br><input type="checkbox"/> Redox Depressions (F8)<br><input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR N, MLRA 136</b> )<br><input type="checkbox"/> Umbric Surface (F13) ( <b>MLRA 122, 136</b> )<br><input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 148</b> )<br><input type="checkbox"/> Red Parent Material (F21) ( <b>MLRA 127, 147, 148</b> ) | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b><br><input type="checkbox"/> 2 cm Muck (A10) ( <b>MLRA 147</b> )<br><input type="checkbox"/> Coast Prairie Redox (A16) ( <b>MLRA 147, 148</b> )<br><input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 136, 147</b> )<br><input type="checkbox"/> Red Parent Material (F21) ( <b>outside MLRA 127, 147, 148</b> )<br><input type="checkbox"/> Very Shallow Dark Surface (F22)<br><input type="checkbox"/> Other (Explain in Remarks) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

|                                                                                 |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Restrictive Layer (if observed):</b><br>Type: _____<br>Depth (inches): _____ | Hydric Soil Present?      Yes _____ No <u>X</u> |
|---------------------------------------------------------------------------------|-------------------------------------------------|

Remarks:  
 No soil pit dug. The area did not meet surface hydrology or hydrophytic plant criteria.



**Record of Climatological  
Observations**  
These data are quality controlled and may not  
be identical to the original observations.  
Generated on 09/01/2025

Current Location: Elev: 1013 ft. Lat: 38.0055° N Lon: 84.4206° W  
Station: **LEXINGTON 5.1 ESE, KY US US1KYFY0046**

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

| Year    | Month | Day | Temperature (F)                      |      |         | Precipitation                              |      |                              |      |                                             | Evaporation                |                      | "Soil Temperature (F)" |      |      |                      |      |      |
|---------|-------|-----|--------------------------------------|------|---------|--------------------------------------------|------|------------------------------|------|---------------------------------------------|----------------------------|----------------------|------------------------|------|------|----------------------|------|------|
|         |       |     | "24 Hrs. Ending at Observation Time" |      | At Obs. | 24 Hour Amounts Ending at Observation Time |      |                              |      | At Obs. Time                                | 24 Hour Wind Movement (mi) | Amount of Evap. (in) | 4 in. Depth            |      |      | 8 in. Depth          |      |      |
|         |       |     | Max.                                 | Min. |         | Rain, Melted Snow, Etc. (in)               | Flag | Snow, Ice Pellets, Hail (in) | Flag | Snow, Ice Pellets, Hail, Ice on Ground (in) |                            |                      | Ground Cover (see *)   | Max. | Min. | Ground Cover (see *) | Max. | Min. |
| 2025    | 07    | 01  |                                      |      |         | 0.01                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 02  |                                      |      |         | 0.36                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 03  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 04  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 05  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 06  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 07  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 08  |                                      |      |         | 0.01                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 09  |                                      |      |         | 0.22                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 10  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 11  |                                      |      |         | 0.01                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 12  |                                      |      |         | 0.03                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 13  |                                      |      |         | 0.15                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 14  |                                      |      |         | 0.20                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 15  |                                      |      |         | 0.01                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 16  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 17  |                                      |      |         | 0.16                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 18  |                                      |      |         | 0.02                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 19  |                                      |      |         | 0.02                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 20  |                                      |      |         | 0.01                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 21  |                                      |      |         | 0.36                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 22  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 23  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 24  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 25  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 26  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 27  |                                      |      |         | 0.32                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 28  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 29  |                                      |      |         | 0.13                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 30  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 07    | 31  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| Summary |       |     | 0                                    | 0    |         | 2.02                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

**Record of Climatological  
Observations**  
These data are quality controlled and may not  
be identical to the original observations.  
Generated on 09/01/2025

Current Location: Elev: 1013 ft. Lat: 38.0055° N Lon: 84.4206° W  
Station: **LEXINGTON 5.1 ESE, KY US US1KYFY0046** Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

| Year    | Month | Day | Temperature (F)                      |      |         | Precipitation                              |      |                              |      |                                             | Evaporation                |                      | "Soil Temperature (F)" |      |      |                      |      |      |
|---------|-------|-----|--------------------------------------|------|---------|--------------------------------------------|------|------------------------------|------|---------------------------------------------|----------------------------|----------------------|------------------------|------|------|----------------------|------|------|
|         |       |     | "24 Hrs. Ending at Observation Time" |      | At Obs. | 24 Hour Amounts Ending at Observation Time |      |                              |      | At Obs. Time                                | 24 Hour Wind Movement (mi) | Amount of Evap. (in) | 4 in. Depth            |      |      | 8 in. Depth          |      |      |
|         |       |     | Max.                                 | Min. |         | Rain, Melted Snow, Etc. (in)               | Flag | Snow, Ice Pellets, Hail (in) | Flag | Snow, Ice Pellets, Hail, Ice on Ground (in) |                            |                      | Ground Cover (see *)   | Max. | Min. | Ground Cover (see *) | Max. | Min. |
| 2025    | 08    | 01  |                                      |      |         | 0.91                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 02  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 03  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 04  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 05  |                                      |      |         | 0.04                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 06  |                                      |      |         | 0.70                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 07  |                                      |      |         | 0.21                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 08  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 09  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 10  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 11  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 12  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 13  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 14  |                                      |      |         | 0.04                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 15  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 16  |                                      |      |         | 0.35                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 17  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 18  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 19  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 20  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 21  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 22  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 23  |                                      |      |         | 0.00                                       |      | 0.0                          |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 24  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 25  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 26  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 27  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 28  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 29  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 30  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| 2025    | 08    | 31  |                                      |      |         |                                            |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |
| Summary |       |     | 0                                    | 0    |         | 2.25                                       |      |                              |      |                                             |                            |                      |                        |      |      |                      |      |      |

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

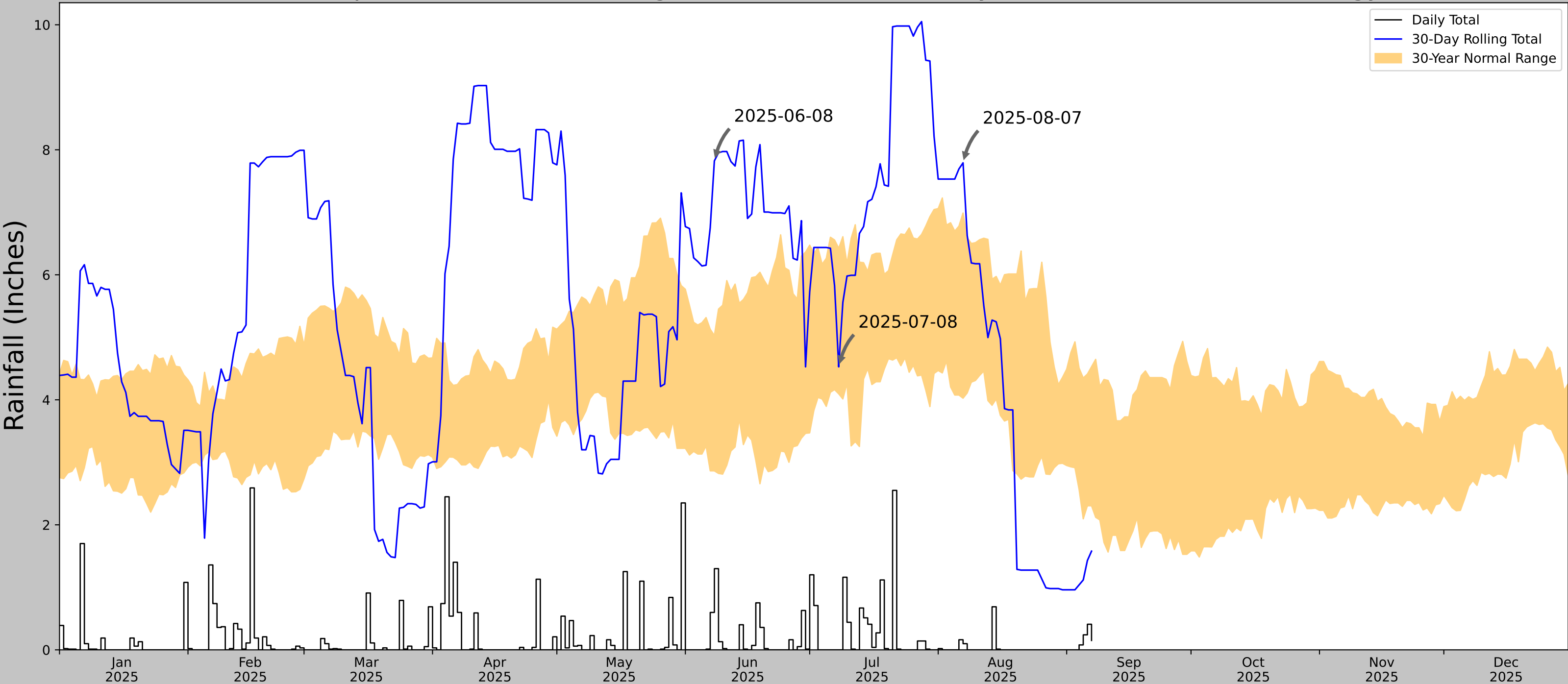
"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.



Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



|                                  |                    |
|----------------------------------|--------------------|
| Coordinates                      | 37.91584, -83.2462 |
| Observation Date                 | 2025-08-07         |
| Elevation (ft)                   | 869.976            |
| Drought Index (PDSI)             | Mild wetness       |
| WebWIMP H <sub>2</sub> O Balance | Dry Season         |

| 30 Days Ending | 30 <sup>th</sup> %ile (in) | 70 <sup>th</sup> %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product                 |
|----------------|----------------------------|----------------------------|---------------|-------------------|-----------------|--------------|-------------------------|
| 2025-08-07     | 4.025591                   | 6.98937                    | 7.791339      | Wet               | 3               | 3            | 9                       |
| 2025-07-08     | 4.095276                   | 6.425591                   | 4.527559      | Normal            | 2               | 2            | 4                       |
| 2025-06-08     | 2.862599                   | 5.029134                   | 7.822835      | Wet               | 3               | 1            | 3                       |
| Result         |                            |                            |               |                   |                 |              | Wetter than Normal - 16 |



US Army Corps  
of Engineers.



Figures and tables made by the  
Antecedent Precipitation Tool  
Version 3.0

Developed by:  
U.S. Army Corps of Engineers and  
U.S. Army Engineer Research and  
Development Center

| Weather Station Name  | Coordinates       | Elevation (ft) | Distance (mi) | Elevation Δ | Weighted Δ | Days Normal | Days Antecedent |
|-----------------------|-------------------|----------------|---------------|-------------|------------|-------------|-----------------|
| CAVE RUN LAKE         | 38.1228, -83.5328 | 839.895        | 21.162        | 30.081      | 10.16      | 11290       | 90              |
| MOREHEAD 5.1 WSW      | 38.1754, -83.5346 | 892.06         | 3.636         | 52.165      | 1.826      | 1           | 0               |
| MOREHEAD STATE POLICE | 38.1864, -83.4669 | 759.843        | 5.668         | 80.052      | 3.004      | 45          | 0               |
| MOREHEAD 6.4 NE       | 38.2429, -83.3449 | 859.908        | 13.153        | 20.013      | 6.182      | 16          | 0               |
| OLIVE HILL 9.0 SSE    | 38.1933, -83.0817 | 875.984        | 24.987        | 36.089      | 12.146     | 1           | 0               |

## Mountain, Ryan C.

---

**From:** CELRL.Door.To.The.Corps <CELRL.Door.To.The.Corps@usace.army.mil>  
**Sent:** Thursday, August 7, 2025 10:17 AM  
**To:** Mountain, Ryan C.  
**Subject:** RE: West Liberty (9I3) - Obstruction Removal Project

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Dear Mr. Mountain,

This email responds to your early coordination letter (or environmental review request) received on August 5, 2025, seeking comments on the West Liberty Airport Obstruction Removal Project in Morgan Co., KY.

The U.S. Army Corps of Engineers (USACE) exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act, 1972 (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

We do not have any comments on the possible environmental effects of the proposed project(s). Our lack of comments on specific potential environmental impacts should not be construed as concurrence that no significant environmental damage would result from the project.

If the project would necessitate the discharge of dredged or fill material into any "waters of the U.S." including wetlands, then you should submit a Department of the Army (DA) permit application for review by this office. We will need a completed DA permit application along with additional details regarding the project's design, scope, construction methods, purpose, and a delineation of all "waters of the U.S.," including the coordinates and locations of each "water" within the proposed project area and all impacts to waters (linear feet, width and acreage).

To submit your DA Permit application electronically, you can visit the following website <https://rrs.usace.army.mil/rrs> As an alternative you can save documents as a PDF and email to [CELRL.Door.To.The.Corps@usace.army.mil](mailto:CELRL.Door.To.The.Corps@usace.army.mil)

Further information on the Regulatory Program, including the DA Permit application, can be obtained from our website at <https://www.lrd.usace.army.mil/Wetlands-Permits/> . Please allow sufficient time in your preconstruction schedule for the processing of a DA permit application.

Sincerely,

Cody Thayer  
Chief, South Branch  
Regulatory Division



Louisville District  
U.S. Army Corps of Engineers  
(502) 315-6690  
Cody.A.Thayer@usace.army.mil

Visit our website: [www.lrd.usace.army.mil](http://www.lrd.usace.army.mil)



Please comment on our service. Our National Customer Service Survey is located at:  
<https://regulatory.ops.usace.army.mil/customer-service-survey/>

---

**From:** Mountain, Ryan C. <RCMountain@GarverUSA.com>  
**Sent:** Tuesday, August 5, 2025 12:09 PM  
**To:** CELRL.Door.To.The.Corps <CELRL.Door.To.The.Corps@usace.army.mil>  
**Cc:** Adams, William C. <WCAAdams@GarverUSA.com>  
**Subject:** [Non-DoD Source] West Liberty (913) - Obstruction Removal Project

Mr. Baldrige,

We are working with the West Liberty Airport on an obstruction removal project and would like to see if the USACE has any concerns or permitting requirements for this project. Please refer to the attached information. Let me know if you have any questions or need additional information.

Sincerely,  
Ryan



**Ryan Mountain, PWS**  
Planning and Environmental Team Leader  
*Transportation Team*  
📞 479-287-4628  
📠 479-903-2041

# **APPENDIX E**

## **Public Involvement, Comments, and Responses**





**Andy Beshear**  
Governor

**OFFICE OF THE GOVERNOR**  
**DEPARTMENT FOR LOCAL GOVERNMENT**  
100 AIRPORT ROAD, THIRD FLOOR  
FRANKFORT, KENTUCKY 40601  
PHONE (502) 573-2382, F 227-8691  
[dlg.ky.gov](http://dlg.ky.gov)

**Matt Sawyers**  
Commissioner

June 17, 2025

Mr. Jeremiah Meyer  
West Liberty-Morgan Airport Board  
50 Airport Way  
West Liberty, KY 41472

RE: Obstruction Removal project  
SAI# KY202506020424  
CFDA# 20.106

Dear Mr. Meyer:

The Kentucky State e-Clearinghouse is the official designated Single Point of Contact (SPOC) for the Commonwealth pursuant to Presidential Executive Order 12372 and supported by Kentucky Statutes KRS 45.031. The primary function of the SPOC is to streamline the review process for the applicant and the funding agency. This process helps in vocalizing the statutory and regulatory requirements. Information in the form of comments, if any, will be attached to this correspondence.

This proposal has been reviewed by the appropriate state agencies in the e-Clearinghouse for conflicts with state or local plans, goals, and objectives. After receiving this letter, you should make it available to the funding agency and continue with the application process for that agency. This e-Clearinghouse SPOC letter signifies only that the project has followed the state reviewing requirements and is neither a commitment of funds from this agency, nor any other state or federal agency. Please remember if any federal reviews are required, the applicant must follow through with those federal agencies.

The results of this review are valid for **one year** from the date of this letter. If the project is not submitted to the funding agency or not approved within one year after the completion of this review, the applicant can request an extension through the **information request function**. If the project changes in any way after the review, the applicant must reapply through the e-Clearinghouse for a new review. There are no exceptions.

If you have any questions regarding this letter or the review process, please contact the e-Clearinghouse office at (502) 573-2382.

Respectfully,

A handwritten signature in blue ink, appearing to read "Cindy Seip".

Cindy Seip,  
Program Coordinator (SPOC)  
Kentucky State e-Clearinghouse

Attachment



**Department of Housing Buildings and Construction**

Don Newberry

The Department of Housing Buildings and Construction, Division of Building Code Enforcement, has no comments concerning this proposed project.

**Environment and Energy Cabinet - Department for Environmental Protection**

Derek Bozzell

This review was based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

401 KAR 63:010, Fugitive Emissions, states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth-moving equipment to be deposited onto a paved street or roadway. Please note the Fugitive Emissions Fact Sheet located at:

<https://eec.ky.gov/Environmental-Protection/Air/Documents/Fugitive%20Dust%20Fact%20Sheet.pdf>.

401 KAR 63:005 states that open burning shall be prohibited except as specifically provided. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the Open Burning Brochure located at:

<http://eec.ky.gov/Environmental-Protection/Air/Pages/Open-Burning.aspx>

The Division suggests an investigation into compliance with applicable local government regulations.

All solid waste generated by this project must be disposed at a permitted facility. If underground storage tanks are encountered they must be properly addressed. If asbestos, lead paint, and/or other contaminants are encountered during this project, they must be properly addressed.

The Division of Water recommends that in the construction of the project Best Management Practices (BMPs) be utilized to prevent nonpoint-sources of water pollution and, thereby, control stormwater runoff and sediment damage to water quality and aquatic habitat. For technical assistance on the kinds of BMPs most appropriate for this type of construction, please contact the local Soil and Water Conservation District or the Division of Conservation of the Energy and Environment Cabinet. The Division of Water, also, has available BMP construction manuals.

If the project is in a karst area, BMPs during construction and operation of the facility should be followed to mitigate any potential impacts to groundwater, especially from excess sediment. The appropriate Groundwater Protection Plan should also be followed and should include spill protection for any on-site fuel storage. Appropriate measures need to be followed to ensure that any wells or springs are not impacted, especially those that may be used for domestic water supplies.

If the proposed project site is in a designated flood hazard area, application must be made to the Division of Water for a floodplain construction permit. Permission, or exemption, depends upon design and the exact site.

If the construction area disturbed is equal to or greater than 1 acre, the applicant will need to apply for a Kentucky Pollutant Discharge Elimination System (KPDES) stormwater discharge permit from Division of Water.



Utility line projects that cross a stream will require a Section 404 permit from the US Army Corps of Engineers and a 401 Water Quality Certification from DOW.

A groundwater survey of the site and vicinity should be conducted prior to construction, and any wells or springs located should be inspected and mapped and records filed with the Watershed Management Branch, Division of Water. If any water wells on-site need to be abandoned, state regulations require that they be properly plugged by a Kentucky certified water well driller.

Transportation Cabinet Kentucky Airport Zoning Commission

The Kentucky Airport Zoning Commission has jurisdiction for issuing permit on and around all public use airports. Information on airport zoning laws and regulations may be found at:

<https://transportation.ky.gov/Aviation/Pages/airportzoning.aspx>

Your project might have the potential of impacting federally or state listed species and natural communities. Go to the Kentucky Biological Assessment Tool ([kynaturepreserves.org](http://kynaturepreserves.org)) to obtain a Standard Occurrence Report for information regarding listed species known within your project area. The report will also provide information on public and private conservation lands, areas of biodiversity significance, and other natural resources in your project area for which the Office of Kentucky Nature Preserves maintains data.

### **Gateway Area Development District**

Benjamin Hamm

The Gateway Area Development District has reviewed the proposed project and finds it consistent with the goals, strategies, and regional priorities identified in the Gateway Regional Comprehensive Economic Development Strategy (CEDS) for Bath, Menifee, Montgomery, Morgan, and Rowan Counties.

### **Kentucky Department of Fish & Wildlife**

Emily Lawson

Due to the location and nature of the project, Kentucky Department of Fish & Wildlife Resources (KDFWR) does not have specific concerns regarding federal or state-listed threatened / endangered species, designated critical habitat, wildlife management areas, or other properties managed by KDFWR. The following recommendations are provided as general guidance for development of private and grant-funded projects submitted to KDFWR for review. In general, impacts to fish and wildlife resources might be avoided and minimized by following the guidance provided below:

- USFWS Coordination for compliance with the Endangered Species Act: Please coordinate with the US Fish and Wildlife Service for compliance with the Endangered Species Act and for specific recommendations to minimize adverse effects to listed species. The USFWS may have seasonal requirements for removing trees, especially those greater than 3” in diameter-at-breast height. Limiting the removal of these trees to the period between October 15th through March 31st will minimize impacts to many species of bats, several of which are listed as threatened or endangered on the federal Endangered Species Act.
- Erosion control to minimize impacts to the aquatic environment: KDFWR recommends that erosion control measures be developed and implemented prior to construction to reduce siltation into waterways located within/near the project area. Such erosion control measures may include, but are not limited to silt fences, staked straw bales, brush barriers, sediment basins, and diversion ditches. Erosion control measures will need to be inspected regularly and repaired as needed. If blanket-style matting is used for erosion control, please avoid using the nylon monofilament netting as it can entangle and kill wildlife. An alternative blanket style control is organic coir matting, which degrades naturally and provides excellent soil protection and moisture retention for seed germination—as well as controlling erosion runoff without unnecessarily impacting wildlife.

Thank you for coordinating with KDFWR. Please contact Emily Lawson at 502-892-4472 or [emilym.lawson@ky.gov](mailto:emilym.lawson@ky.gov) if you have further questions or require additional information.

**Kentucky Transportation Cabinet**

Darren Back

Based on the information provided, the Kentucky Transportation Cabinet District 10 has no comments regarding the proposed project. If any work is planned within the Commonwealth of Kentucky's Right of Way, please submit a permit application to the KYTC District 10 Permits Section and obtain approval prior to beginning work. For further questions or additional information, please contact Darren Back at 606-666-8841 or [darren.back@ky.gov](mailto:darren.back@ky.gov).

**KY Heritage Council**

Yvonne Sherrick

To receive a review from the KY Heritage Council/State Historical Preservation Office (SHPO) you must follow the instructions located on their website at <https://heritage.ky.gov/compliance/Pages/overview.aspx>. There you will find the required documents for the Section 106 Review and Compliance for 36 CFR Part 800. This Section 106 submission process to SHPO will assist applicants and agencies in providing the appropriate level of information to receive comments from SHPO. If you have any questions please contact Yvonne Sherrick, via email at [yvonne.sherrick@ky.gov](mailto:yvonne.sherrick@ky.gov).

Please note: If your project is funded through Transportation Alternative (TAP), Transportation Enhancements (TE), Congestion, Mitigation, Air Quality (CMAQ), or Safe Routes to School (SRTS) you will need to send this information to Michael Jones, Historic Preservation Program Administrator with the Kentucky Transportation Cabinet via email to [MichaelR.Jones2@ky.gov](mailto:MichaelR.Jones2@ky.gov) or hard copy to Michael Jones, Office of Local Programs, KY Transportation Cabinet, 200 Mero Street Frankfort, KY 40622. Do not send materials directly to SHPO if your project involves funding from these four sources as it will cause delays in the review process. Michael Jones will consult directly with the SHPO on projects with these funding sources to complete the Section 106 review.





2525 Harrodsburg Rd  
Suite 405  
Lexington, KY 40504  
TEL 859.219.0659  
FAX 859.410.2600  
[www.GarverUSA.com](http://www.GarverUSA.com)

---

July 11, 2025

Morgan County Fiscal Court  
450 Prestonsburg Street, West Liberty, KY 41472

Re: Request for Property Access  
9I3 Runway 7-25 Obstruction Removal, Focused Environmental Assessment  
West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

The West Liberty-Morgan County Airport Board has an upcoming proposed obstruction removal project for Runway 7-25 at the West Liberty Airport. The future project would consist of removing some isolated trees within the areas shown on the attached map. The first step of this proposed project is the preparation of a National Environmental Policy Act (NEPA) Environmental Assessment (EA). The EA requires us, the Engineer of Record for the airport board, to perform general site surveys.

We respectfully request access to your property to complete general surveys. Surveys will be brief and may include walking the land, taking photographs, and digging small holes using a shovel (i.e., 8"w x 20"d) that will be backfilled and tamped. We will be respectful and leave gates and property in the condition in which we find it.

Field studies will be conducted at various times between July 28 and August 15, 2025. **Please contact me if you want to grant or deny access to your property** or if you have any special instructions for access. My contact information is 479-287-4628, or [RCMountain@GarverUSA.com](mailto:RCMountain@GarverUSA.com).

Sincerely,

Ryan Mountain, PWS  
Environmental Project Manager

Enclosures



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July 11, 2025

Robin Elizabeth Dalton  
58 Sugar Maple Lane, West Liberty, KY 41472

Re: Request for Property Access  
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West Liberty Airport, West Liberty, Kentucky

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Sincerely,

Ryan Mountain, PWS  
Environmental Project Manager

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July 11, 2025

Alan & Joyce Lewis  
650 Dehart Road, West Liberty, KY 41472

Re: Request for Property Access  
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July 11, 2025

Constance Foster  
113 Sugar Maple Lane, West Liberty, KY 41472

Re: Request for Property Access  
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

Marie Lacy Rowe C/O Tommy Standafer  
1028 Patrick Road, West Liberty, KY 41472

Re: Request for Property Access  
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

N/A

N/A

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Ryan Mountain, PWS  
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July 11, 2025

Margaret Burt  
550 Dogwood Lane, West Liberty, KY 41472

Re: Request for Property Access  
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July 11, 2025

Ralf & Sherry Day  
27 Trooper Lane, West Liberty, KY 41472

Re: Request for Property Access  
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West Liberty Airport, West Liberty, Kentucky

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Sincerely,

Ryan Mountain, PWS  
Environmental Project Manager

Enclosures



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July 11, 2025

Kendra Bell  
41 Trooper Lane, West Liberty, KY 41472

Re: Request for Property Access  
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West Liberty Airport, West Liberty, Kentucky

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Sincerely,

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TEL 859.219.0659  
FAX 859.410.2600  
[www.GarverUSA.com](http://www.GarverUSA.com)

---

July 11, 2025

Dwayne Nickell  
22 Trooper Lane, West Liberty, KY 41472

Re: Request for Property Access  
9I3 Runway 7-25 Obstruction Removal, Focused Environmental Assessment  
West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

The West Liberty-Morgan County Airport Board has an upcoming proposed obstruction removal project for Runway 7-25 at the West Liberty Airport. The future project would consist of removing some isolated trees within the areas shown on the attached map. The first step of this proposed project is the preparation of a National Environmental Policy Act (NEPA) Environmental Assessment (EA). The EA requires us, the Engineer of Record for the airport board, to perform general site surveys.

We respectfully request access to your property to complete general surveys. Surveys will be brief and may include walking the land, taking photographs, and digging small holes using a shovel (i.e., 8"w x 20"d) that will be backfilled and tamped. We will be respectful and leave gates and property in the condition in which we find it.

Field studies will be conducted at various times between July 28 and August 15, 2025. **Please contact me if you want to grant or deny access to your property** or if you have any special instructions for access. My contact information is 479-287-4628, or [RCMountain@GarverUSA.com](mailto:RCMountain@GarverUSA.com).

Sincerely,

Ryan Mountain, PWS  
Environmental Project Manager

Enclosures





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July 11, 2025

Madison Price  
111 Crestview Drive, West Liberty, KY 41472

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July 11, 2025

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July 11, 2025

Tim Keller  
6374 Hwy 460 W, West Liberty, KY 41472

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July 11, 2025

Total Collision Parts Inc  
6374 Hwy 460 W, West Liberty, KY 41472

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January 2, 2026

Kendra Bell  
41 Trooper Lane West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination  
West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

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January 2, 2026

Michael Bradley & Jennifer Wright  
55 Trooper Lane West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination  
West Liberty Airport, West Liberty, Kentucky

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January 2, 2026

Margaret Burt  
550 Dogwood Lane West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination  
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January 2, 2026

David Ralph & Sherry Day Holbrook  
27 Trooper Lane West Liberty, KY 41472

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January 2, 2026

Lacy Marie Rowe C/O Tommy Standafer  
1028 Patrick Road West Liberty, KY 41472

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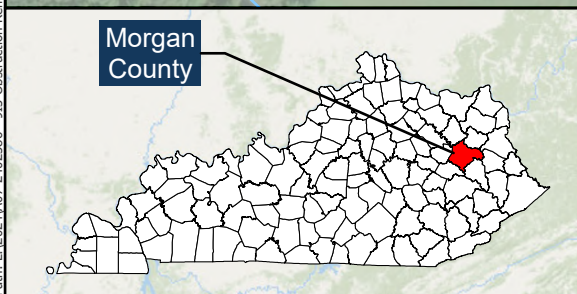
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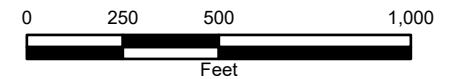
Service Layer Credits: World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue



 Direct Study Area  
 River

## Figure 2: Study Area

**913 Obstruction Removal  
Morgan County, Kentucky**



# **APPENDIX F**

## **Preparer Resumes**





# Will Adams, PE

Kentucky Aviation Leader | Lexington, KY

7 Years of Experience

## Education

Bachelor of Science,  
Civil Engineering

## Certification

Professional Engineer,  
KY, 38791

## Affiliations

American Association  
of Airport Executives

Kentucky Aviation  
Association

Kentuckians for Better  
Transportation

Will Adams serves as Garver's Aviation Team Leader for Kentucky, managing design and construction services for airports across the state. He engages directly with aviation clients, coordinates staffing and subconsultants, and oversees quality control for projects statewide. He has worked on a wide variety of airport projects, including runway extensions, apron and taxiway reconstruction, hangar construction, and drainage improvements at general aviation and commercial services airports across the Commonwealth. Will has a strong understanding of Kentucky Transportation Cabinet's bidding and finance processes, helping him successfully navigate administrative requirements and keep projects on track.

## Relevant Experience

### **Obstruction Removal Environmental Assessment** | *West Liberty Airport*

**Project Manager** responsible for leading coordination among the environmental project team, the client, and regulatory agencies as part of EA development for an upcoming obstruction removal project. Responsibilities included supporting scoping and client/stakeholder coordination as well as grant-related coordination.

### **Box Hangar Construction** | *West Liberty Airport*

**Project Manager** responsible for management of construction phase of a three-unit box hangar project including submittal review, invoice processing, and client and contractor coordination.

### **Markings and Drainage Improvements** | *West Liberty Airport*

**Project Manager** responsible for leading design, bidding, and construction phase services for a runway marking and drainage improvement project. Also responsible for coordination with internal environmental services team, FAA and KDA stakeholders, and contractor, and as well as grant-related support.

### **Airport Layout Plan Update** | *West Liberty Airport*

**Project Manager** responsible for leading coordination among the airport planning team, the client, and regulatory agencies as part of developing an ALP update with narrative report focused on runway safety enhancement and obstruction mitigation. Runway development alternatives included providing the longest and safest runway possible in a geographic setting where terrain is challenging.

### **Terminal Development, Phase 1** | *Capital City Airport*

Project manager responsible for leading project administration, design, bidding, and construction phase services for first phase of preparing the site for future terminal development and related infrastructure improvements.

### **T-Hangar Development** | *Cynthiana-Harrison County Airport*

Project manager for the construction of new T-hangars and apron pavements. Elements included survey, geotechnical, design, and bidding, as well as airspace and modification of stormwater drainage patterns. Removal of tree obstructions prior to bidding was also required in order to satisfy FAA requirements.



## Education

Bachelor of Science,  
Biology



# Colby Marshall

Environmental Scientist | Fayetteville, AR

16 Years of  
Experience

Colby Marshall is an environmental specialist at Garver responsible for performing wetland delineations, jurisdictional water evaluations, industrial and construction stormwater permitting, habitat assessments, and wildlife surveys. He has completed the USACE Stream Investigation, Stabilization, and Design Workshop, Tennessee's Hydrologic Determination Training Course, and has an EPA Watershed Management Training Certificate. His experience includes Trimble GPS and ArcGIS.

## Relevant Experience

### **Environmental Assessment** | *Muhlenberg County Airport*

**Environmental Specialist** responsible for providing technical support for development of an EA prior to a corporate apron expansion. Specific duties included conducting plant identification and aquatic resource reviews, compiling and analyzing data, and performing mitigation research to inform impact evaluations. Also coordinated with USACE for permitting and Section 404 requirements.

### **Runway 25 Extension Environmental Assessment** | *Fort Smith Regional Airport*

**Environmental Specialist** responsible for the development and coordination of a USACE individual permit for wetland mitigation. The proposed 1,300-ft runway extension included the disturbance of approximately five acres of existing wetlands. Coordinated with the USACE and the owner to execute an Individual Permit, which included mitigation credits to offset the wetland disturbance. Also assisted in the development of an Environmental Assessment for the project.

### **Environmental Assessment for MTSU Development** | *Shelbyville Municipal Airport*

**Environmental Specialist** for completion of an Environmental Assessment for the Middle Tennessee State University (MTSU) Aviation Facility project. Responsibilities included TDEC, USFWS, and other agency coordination, tribal coordination, wetland report development, habitat assessment development, and Section 404 permitting as well as drafting the final Environmental Assessment.

### **Environmental Assessment** | *Garnett Municipal Airport*

**Environmental Specialist** responsible for delineating wetlands along proposed airport improvements as part of EA development to evaluate impacts from the preferred development of the ALP update. Responsibilities included assessing federally threatened and endangered species habitat and drafting a wetland report and Section 404 permit package.

### **Environmental Assessment for Midfield Apron Expansion** | *Music City Executive Airport*

**Environmental Specialist** responsible for drafting a wetland report and hydrologic determination and acquiring a Section 404 permit. Garver provided environmental clearance services for the site in preparation for an apron expansion nearer the airport's center in an effort to meet the ever-growing demand for hangar construction.



# Michelle Cook, MS

Environmental Planner | Frisco, TX

7

Years of  
Experience

## Education

Master of Science,  
Geographic  
Information Science

Bachelor of Arts,  
Anthropology

Bachelor of Arts,  
History

Michelle Cook is a project administrator in the Frisco office. Her responsibilities include transportation administration support including material and shop drawing submittal coordination, compiling documents submittal to the client, document formatting and printing, assisting with property owner verification, preparing and mailing public meeting letters, and preparing meeting documents. She is also responsible for assisting with travel coordination and professional license renewals.

## Relevant Experience

### **FM 1173, TxDOT Dallas District** | *Krum, TX*

**Project administrator** responsible for providing support including material and shop drawing submittal coordination, compiling documents for submittal to the Client, document formatting and printing, facilitating meetings, and gathering information regarding project route. Responsibilities included scheduling meetings, preparing agendas and meeting minutes, researching property locations, verifying and updating owner information, obtaining photographs of project route, preparing public meeting notification letters, and preparing public meeting documents and presentation boards. Additionally, responsible for reviewing subconsultant invoices and maintaining certificates of insurance from subconsultants for records.

### **Irving Boulevard from Sowers Road to Strickland Drive** | *Irving, TX*

**Project administrator** responsible for providing support including document formatting, document printing, and gathering information regarding project route. Responsibilities included researching property locations, verifying and updating owner information, preparing public meeting notification letters, preparing public meeting documents and presentation boards, and providing administrative support during public meetings. Additionally, responsible for maintaining certificates of insurance from subconsultants for records.

### **North Texas Toll Authority SE** | *Prosper, TX*

**Project administrator** responsible for providing support including document formatting and printing, facilitating meetings, and gathering information regarding project route. Responsibilities included scheduling meetings, preparing agendas and meeting minutes, researching property locations, and verifying and updating owner information. Additionally, responsible for reviewing subconsultant invoices and maintaining certificates of insurance from subconsultants for records.

### **FM 1387, TxDOT Dallas District** | *Midlothian, TX*

**Project administrator** responsible for providing support including document formatting and printing, assisting with contracts, and gathering property information regarding project route. Responsibilities included researching property locations and verifying and updating owner information. Additionally, responsible for maintaining certificates of insurance from subconsultants for records.

### **I-20 PSE, TxDOT Dallas District** | *Dallas, TX*

**Project administrator** responsible for facilitating meetings. Responsibilities included scheduling meetings and preparing agendas and meeting minutes. Additionally, responsible for reviewing subconsultant invoices, maintaining certificates of insurance from subconsultants for records.





## Education

Bachelor of Science,  
Communications



# Kendall Johnson

Communications Specialist | Round Rock, TX

5 Years of  
Experience

Kendall Johnson is a communications specialist with a focus on public outreach and public involvement coordination for transportation projects. She develops and manages virtual public involvement websites, prepares news releases, and creates a wide range of outreach materials including email blasts, mailed letters, postcards, and comment forms. Kendall also leads the development of summary reports, organizes and executes in-person public meetings, documents and tracks all project comments, engages directly with the public, and maintains active project websites to ensure information remains accurate and up to date.

## Relevant Experience

### **Obstruction Removal Environmental Assessment** | *West Liberty Airport*

**Communications specialist** responsible for sending multiple rounds of notification letters to property owners about upcoming project work. Garver is providing services for an environmental assessment prior to the design and construction of an obstruction removal project.

### **Sustainability Master Plan** | *El Paso International Airport*

**Communications specialist** responsible for developing and maintaining the project website to inform the public about the sustainability master plan efforts and provide a platform for gathering community feedback. Also monitored and reported on website analytics to track engagement. The master plan provides an inventory of existing sustainability-related activities/infrastructure, visioning and goal setting, and an action plan to improve sustainability.

### **Airport Master Plan** | *Dallas Executive Airport*

**Communications specialist** responsible for developing and maintaining the project website to inform the public about the Airport Layout Plan. Garver is developing an ALP with Narrative Report focused on establishing a detailed aeronautical facility development plan that includes drainage planning and improvements.

### **I-70 Blue Springs to Odessa** | *Missouri Department of Transportation*

**Communications specialist** responsible for developing ballots, handouts, and brochures for property owners to communicate key project details. Also prepared comprehensive meeting materials for the in-person public meeting to further explain the project. Garver is delivering accelerated final design for the western 5-mile I-70 widening from Blue Springs past the Sni-A-Bar Creek bridges.

### **MS 161 Clarksdale** | *Mississippi Department of Transportation*

**Communications specialist** responsible for preparing email blasts and mailing letters and postcards to inform the public about the project. Coordinated an in-person public meeting to provide additional project information and gather community feedback. Garver is providing Phase A design, plans, and submittals for SR 161 from New Africa Road to 6th Street.



# Ryan Mountain, PWS

Planning and Environmental Team Leader | Rogers, AR

26 Years of Experience

## Education

Bachelor of Science,  
Fisheries and Wildlife  
Management

## Certification

Professional Wetland  
Scientist, 2745

## Affiliations

Society of Wetland  
Scientists

Ryan Mountain is a planning and environmental team leader with 26 years of experience who is responsible for providing environmental services to our aviation, transportation, industrial, federal, and water business lines. His primary aviation responsibilities include authoring and managing the completion of NEPA documents; providing quality control reviews; identifying hazardous wildlife attractants; erosion control planting recommendations; Section 404 permitting; local, state, and federal agency coordination; designing and drafting wetland and stream mitigation plans and specifications; conducting wetland and stream delineations; biological evaluations; habitat assessments; functional value assessments; preparation of spill prevention control and countermeasure plans; and preparing stormwater pollution prevention plans. He has completed numerous Phase I Environmental Site Assessments as required with the purchase of commercial properties, including RSAs. Ryan has completed the Federal Highway Administration's Section 4(f) overview course and TNM 2.5 noise modeling course, covering the important statute that protects parklands, recreation areas, wildlife and waterfowl refuges, historic sites, and noise impacts.

## Relevant Experience

**Environmental Assessment for MTSU Development** | *Shelbyville Municipal Airport*  
**Senior Environmental Scientist** for completion of an EA for the Middle Tennessee State University (MTSU) Aviation Facility. Responsibilities included leading EA development, coordinating field work and wetland and stream delineation, conducting noise study, coordinating with agencies, and managing team of environmental scientists.

**Environmental Assessment** | *Muhlenberg County Airport*  
**Senior Environmental Scientist** responsible for co-authoring a short-form EA for a corporate hangar and fixed wing flight school facility project. Responsibilities included coordination with airport director and local, state, and federal agencies. Served as primary field biologist for completion of wetland delineation. Project includes alternatives analysis and completion of an EA with FAA as the lead federal agency.

**Environmental Assessment** | *Madisonville Regional Airport*  
**Senior Environmental Scientist** responsible for co-authoring an EA for the hangar improvements to accommodate a flight training program. Responsibilities included overall environmental project management, EA development, oversight of agency coordination and field studies, noise study, quality control reviews, coordination with FAA, and public advertisement of the environmental documents.

**Environmental Assessment** | *Cynthiana-Harrison County Airport*  
**Senior Environmental Scientist** responsible for co-authoring an EA for a runway obstruction removal. Responsibilities included coordination with airport director and local, state, and federal agencies, including USFWS as well as consultant coordination for threatened and endangered species bat surveys, cultural historic properties and archaeological surveys. Served as the primary field biologist for wetland delineation.

**Environmental Assessment** | *Music City Executive Airport*  
**Senior Environmental Scientist** responsible for completion of a focused EA for land acquisition. Responsibilities included project management, EA development, oversight of agency coordination and field studies, quality control reviews, coordination with TDOT Aeronautics Division, and public advertisement of the environmental documents.