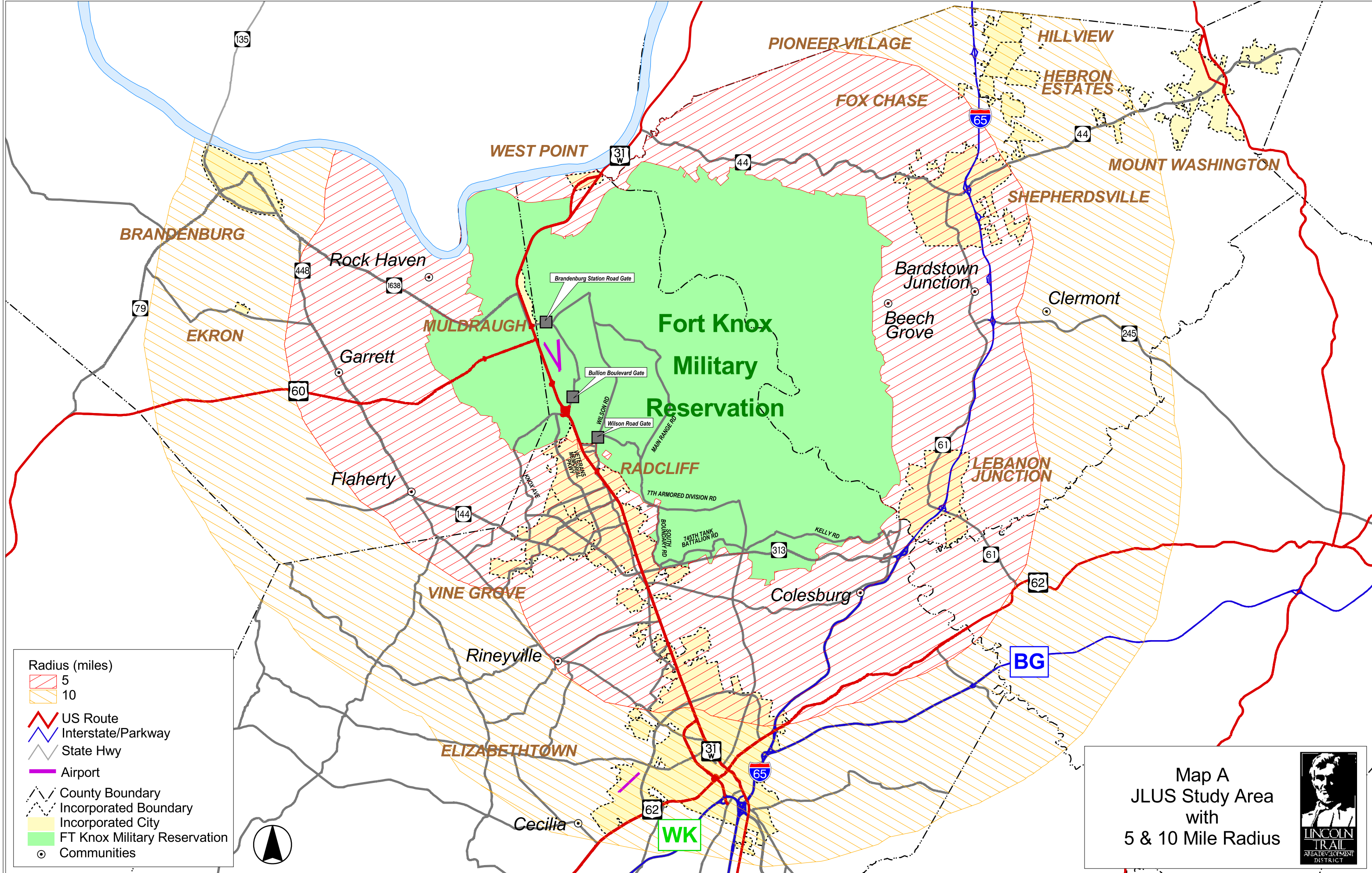



APPENDIX C

MAPS

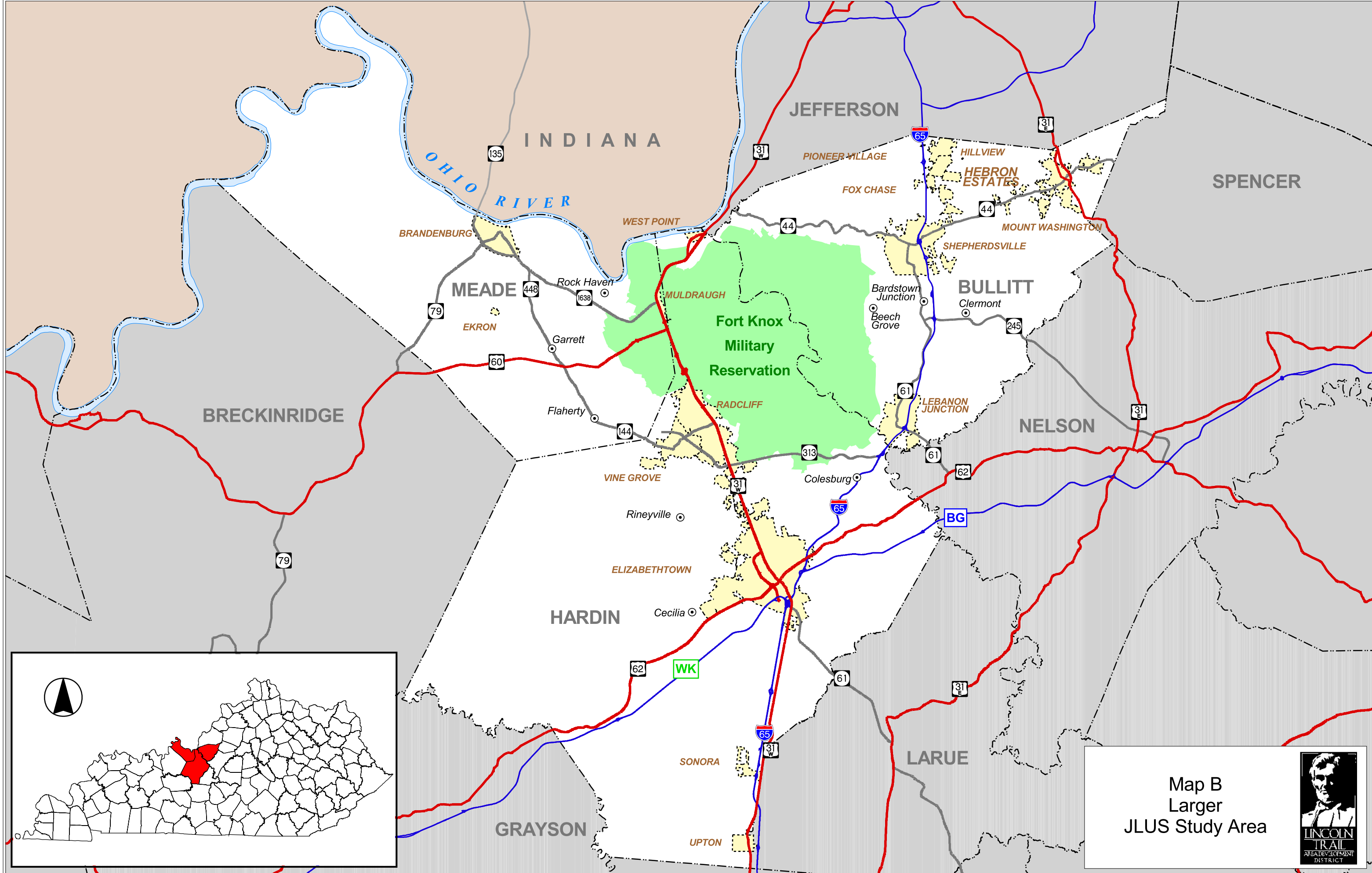


- Radius (miles)
- 5
 - 10
- US Route
 - Interstate/Parkway
 - State Hwy
 - Airport
 - County Boundary
 - Incorporated Boundary
 - Incorporated City
 - FT Knox Military Reservation
 - Communities


Map A
 JLUS Study Area
 with
 5 & 10 Mile Radius



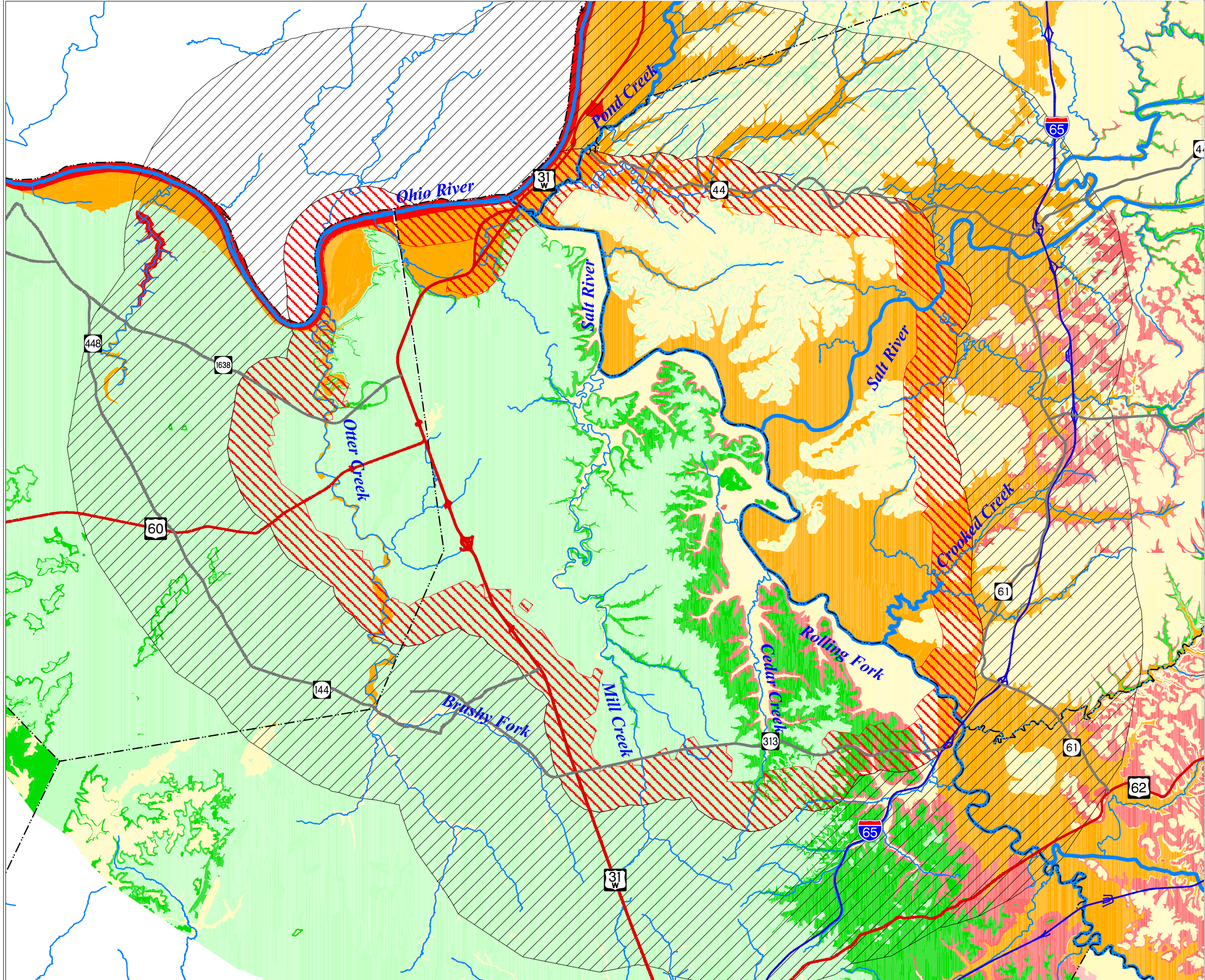
0 5 10 Miles



Map B
Larger
JLUS Study Area



0 5 10 15 20 Miles



LEGEND

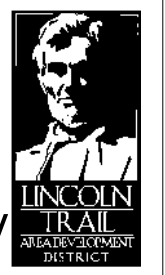
- HIGHWAYS**
- US ROUTE
 - INTERSTATE/PARKWAY
 - County Boundary
 - Rivers
 - Streams
- Ft Knox Radius**
- 1 Mile
 - 5 Miles
- Geology**
- Excellent foundation material
 - Good to excellent foundation material
 - Fair to good foundation material
 - Fair foundation material
 - Fair to poor foundation material
 - Poor foundation material
 - Not Buildable

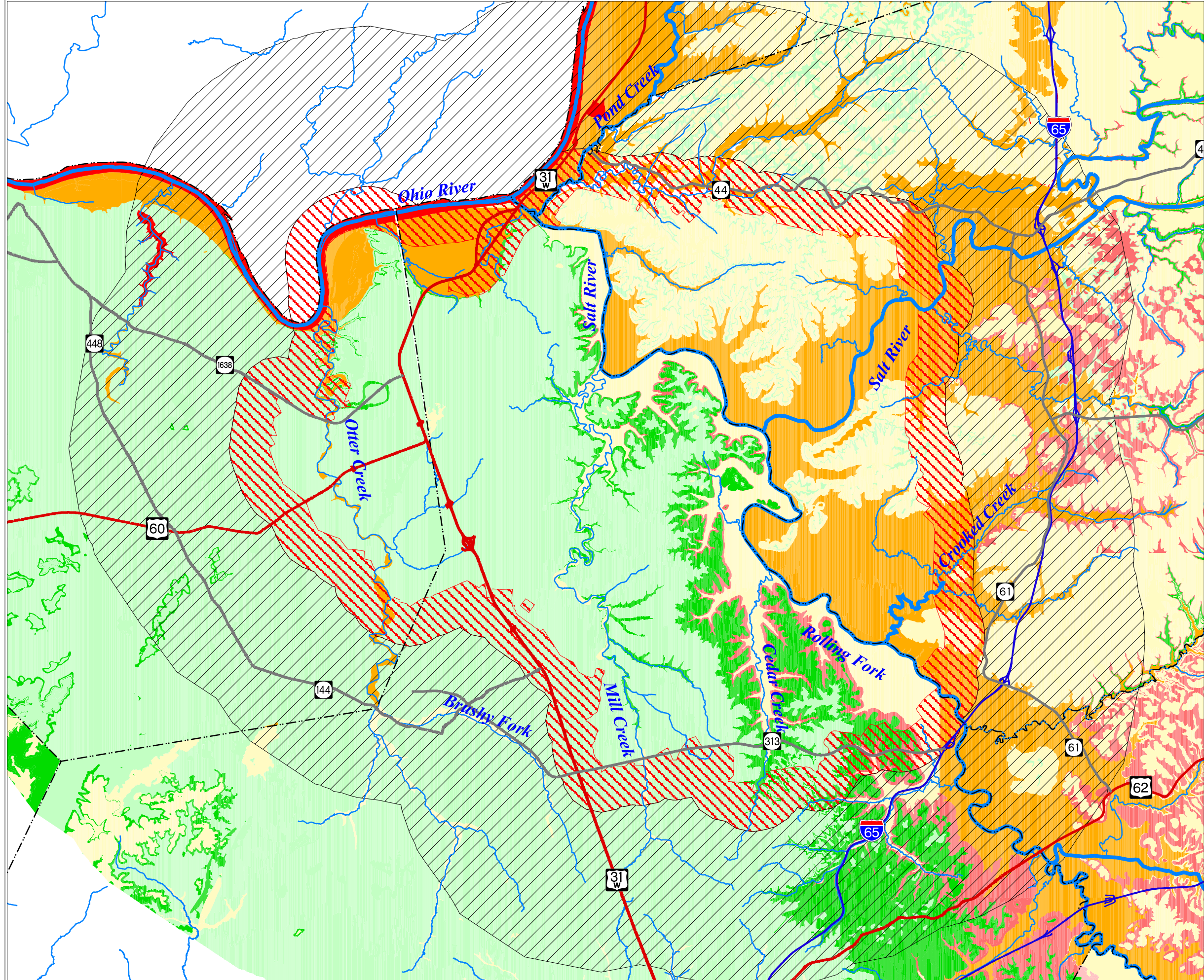


FORT KNOX JOINT LANDUSE STUDY

Map C-1 Geology

Foundation Suitability





LEGEND

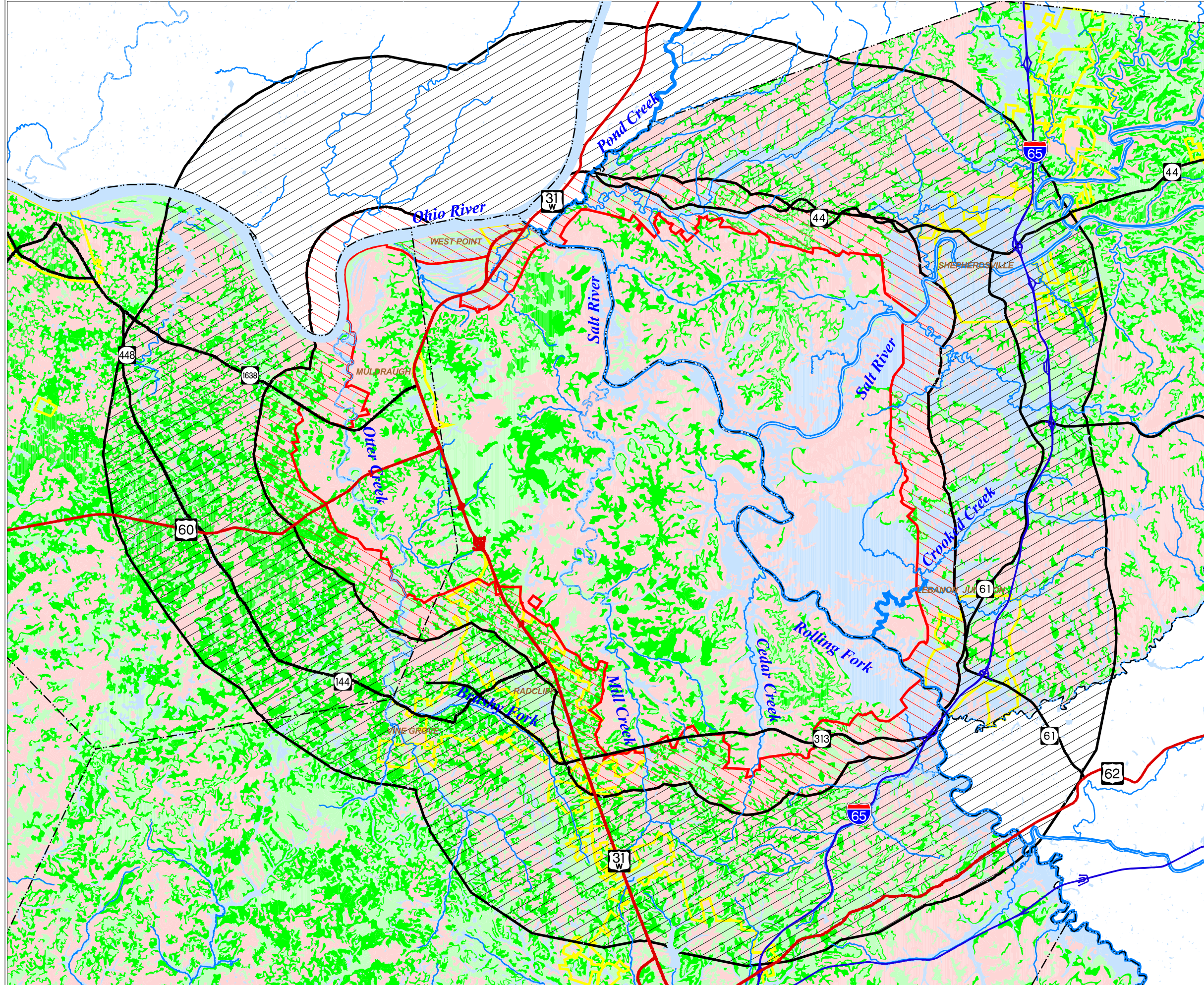
- HIGHWAYS**
- US ROUTE
 - INTERSTATE/PARKWAY
 - County Boundary
 - Rivers
 - Streams
- Ft Knox Radius**
- 1 Mile
 - 5 Miles
- Geology**
- Alluvium
 - Artificial fill
 - Clay, silt, sand, and gravel
 - Dolomite
 - Dolomite, limestone, siltstone
 - Limestone
 - Limestone, dolomite, and shale
 - Sandstone
 - Sandstone, shale
 - Shale
 - Shale and limestone
 - Shale, sandstone, limestone
 - Shale, siltstone, and limestone
 - Silt, sand, and gravel
 - Siltstone and shale
 - Water



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Map C Geology





LEGEND

- HIGHWAYS**
- US ROUTE
 - INTERSTATE/PARKWAY
 - County Boundary
 - Rivers
 - Streams

- Ft Knox Radius**
- 1 Mile
 - 5 Miles

- Soils**
- Farmland of statewide importance
 - All areas are prime farmland
 - Prime farmland if drained (may be flooding issues)
 - Not prime farmland

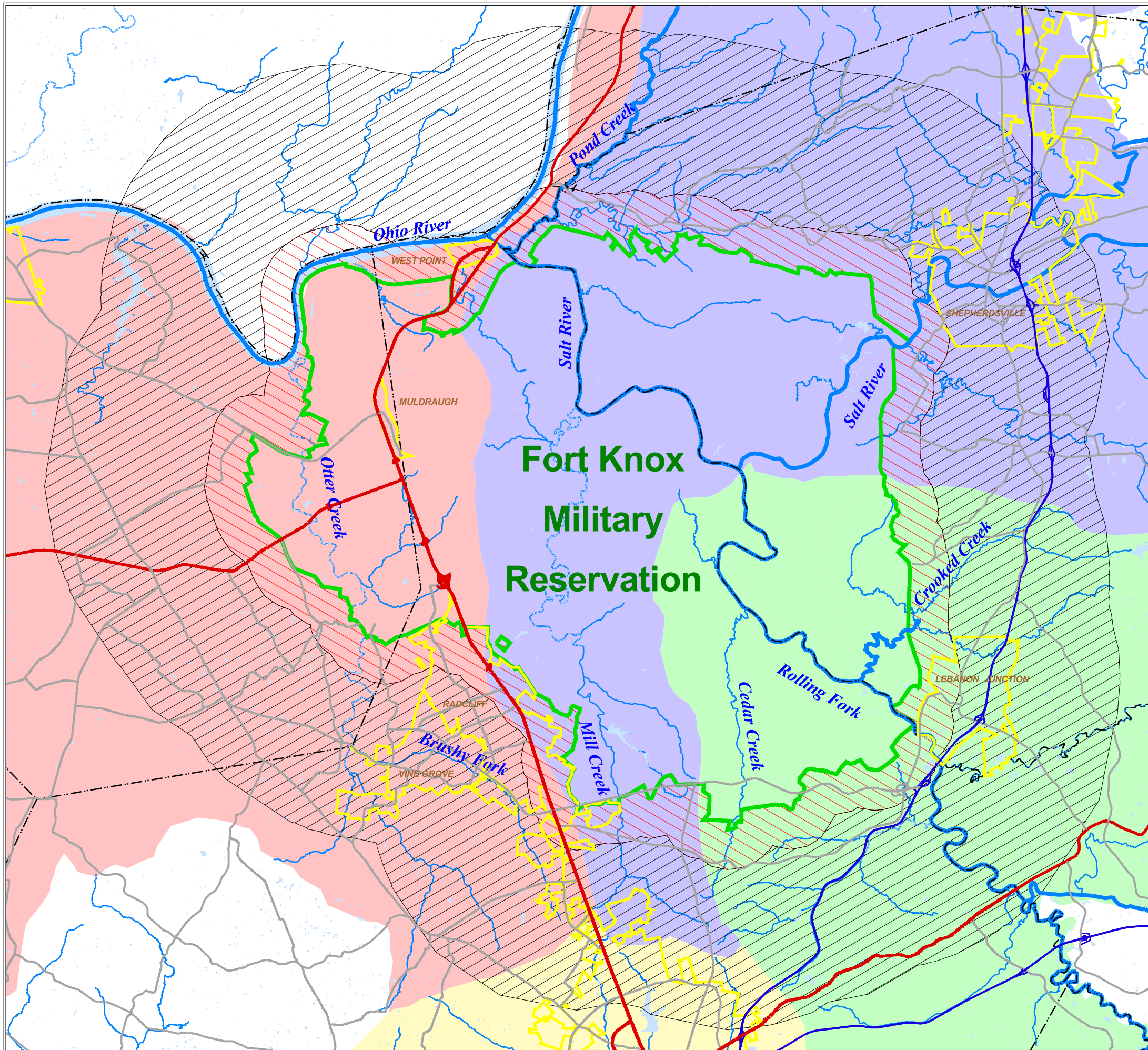


FORT KNOX JOINT LANDUSE STUDY







Map D Soils

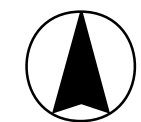
Suitability for Farmland





LEGEND

-  Rivers/Streams
- Watersheds
 -  Ohio River
 -  Rolling Fork
 -  Salt River
 -  Upper Green River
-  Ft Knox Military Reservation
- Fort Knox Radius
 -  1 Mile
 -  5 Mile
-  County Boundary

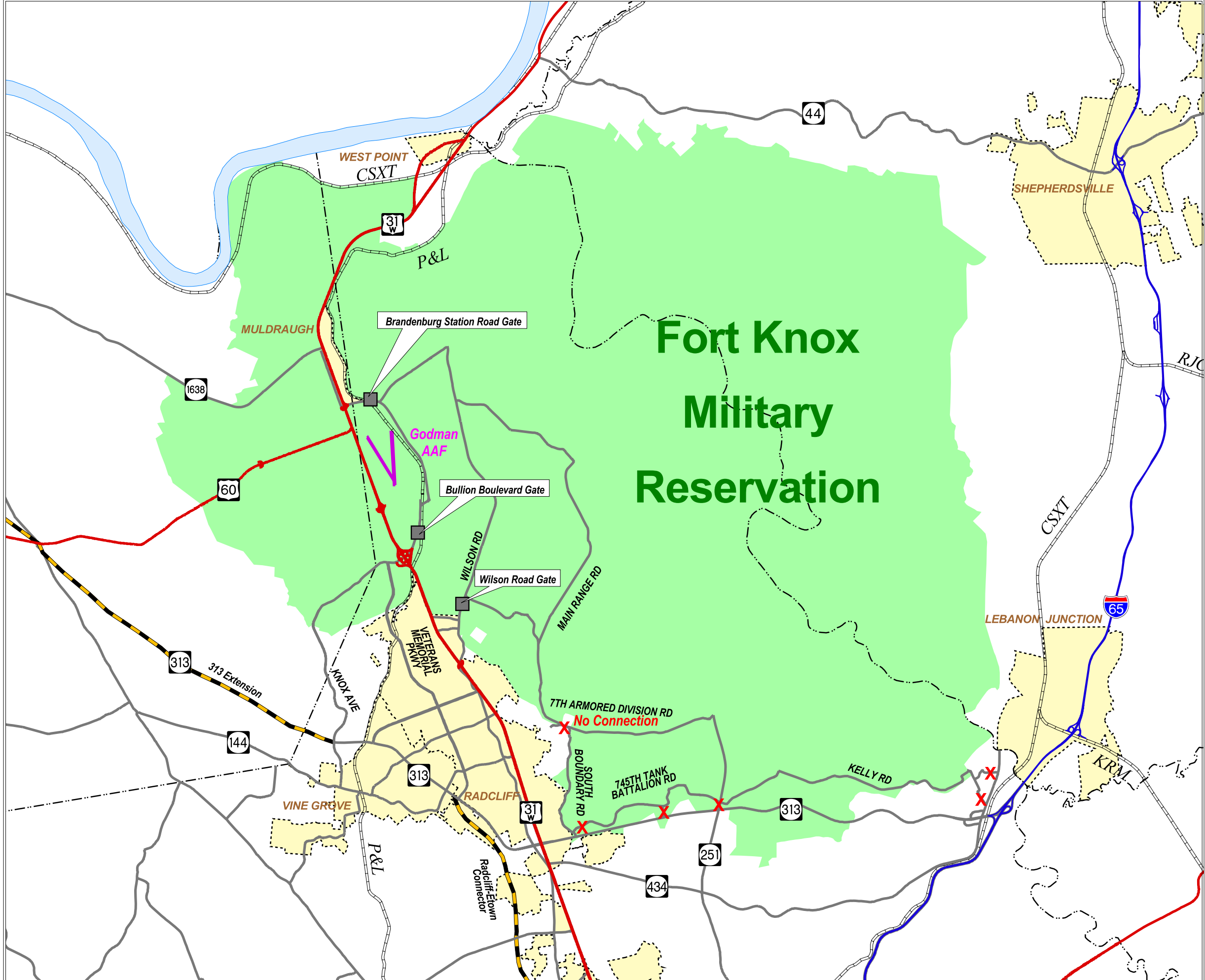


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Map E Hydrology



0 5 10 Miles



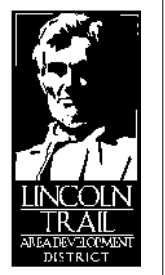
LEGEND

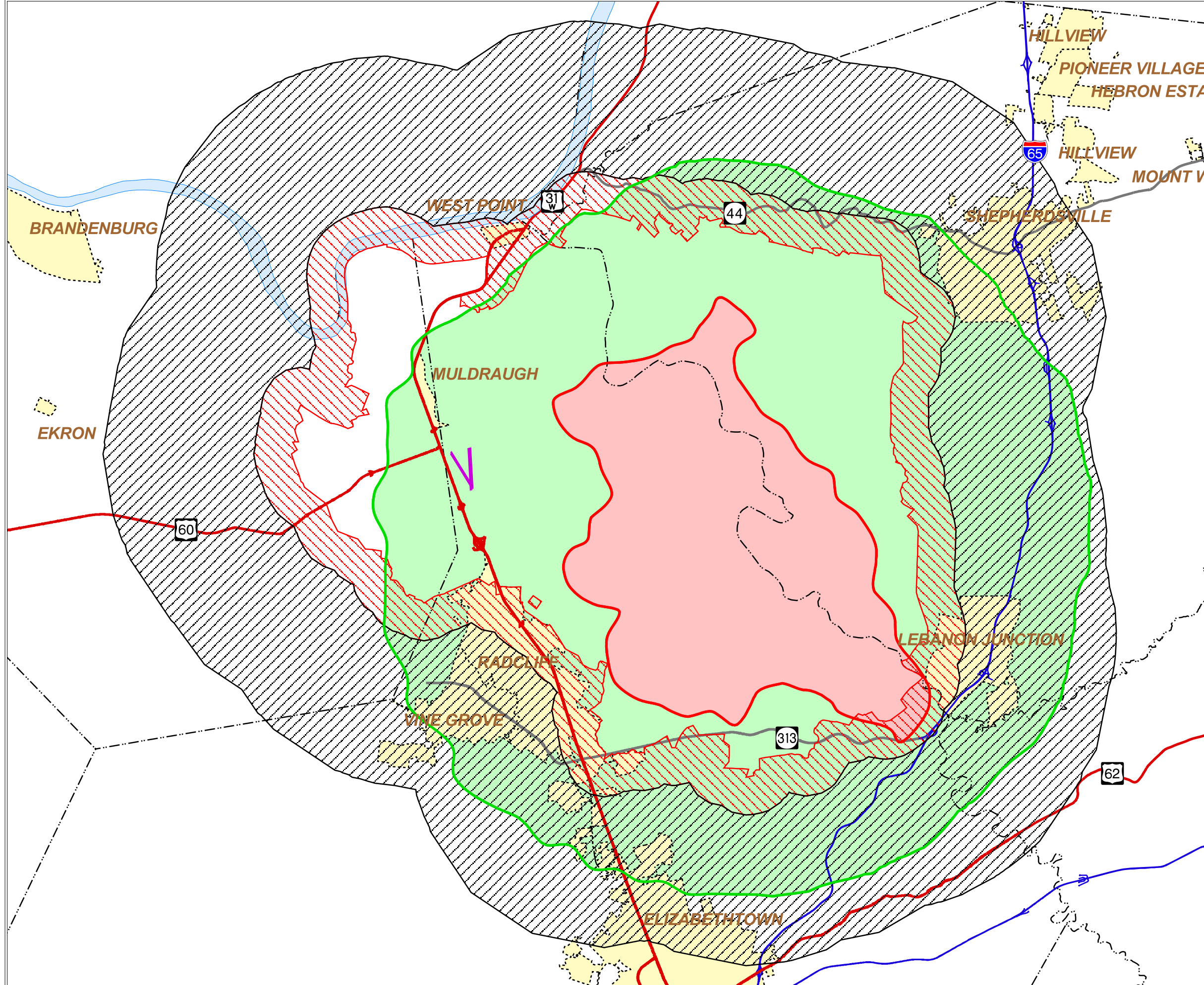
- Ft Knox Gates
- HIGHWAYS
 - US Route
 - Interstate/Parkways
 - Local Road
 - Proposed Roads
- Railroad
- Airport
- County Boundary
- Incorporated Boundary
- Incorporated City
- FT KNOX MILITARY RESERVATION
- × Military Access Only



FORT KNOX JOINT LANDUSE STUDY

Map F Transportation





LEGEND

- Ft Knox Radius
 - 1 Mile
 - 5 Miles
- HIGHWAYS
 - US ROUTE
 - INTERSTATE/PARKWAY
 - State Route
- Airport
- COUNTY BOUNDARY
- Incorporated City
- PK15 Noise Levels (Decibels)
 - 115
 - 130

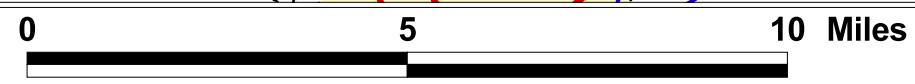
PK 15(met) = Single Event Peak Level exceeded by 15% of events.

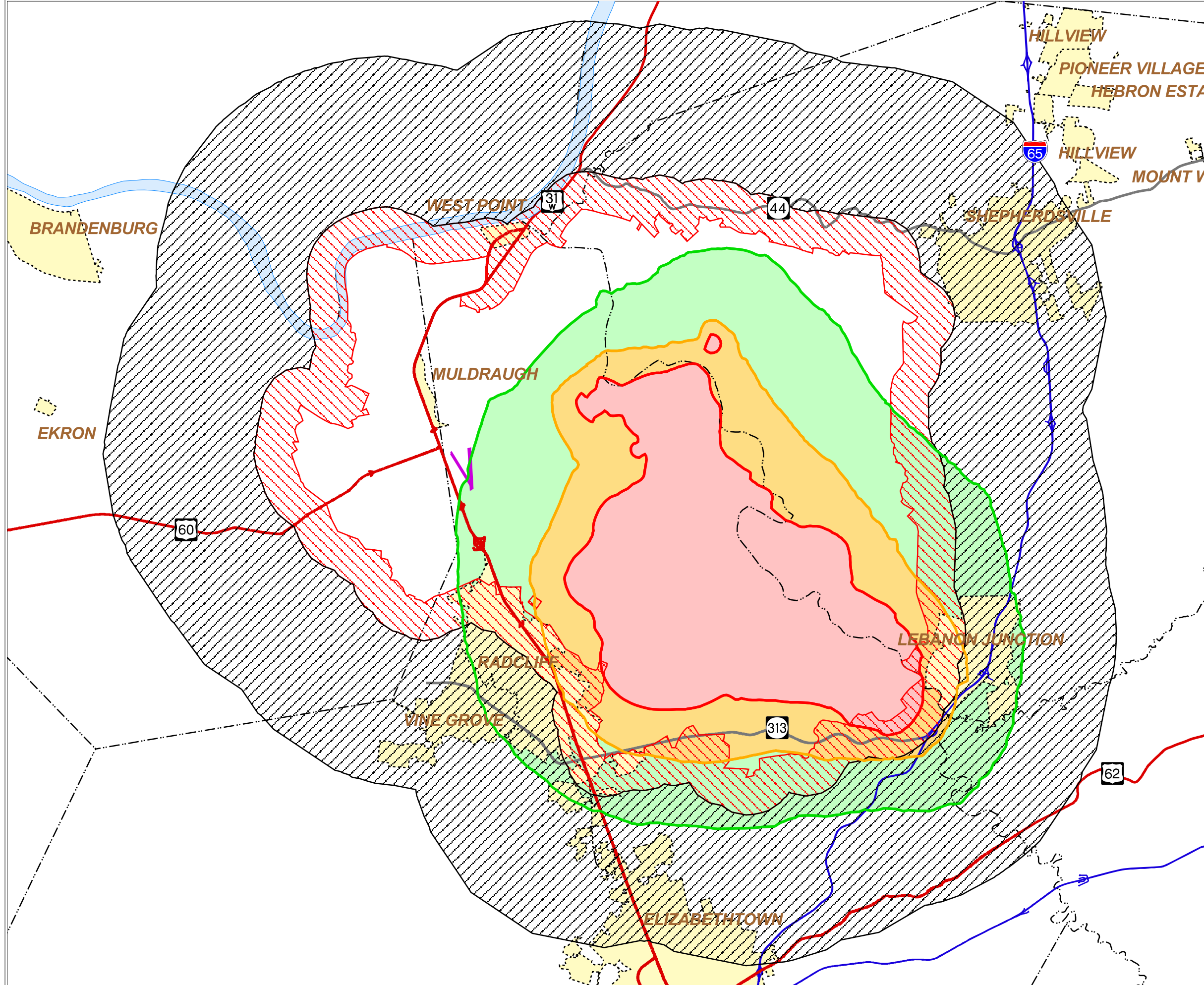
- (1) The high risk of complaint area consists of the area around the source of the noise in which PK15(met) noise contour is greater than 130 dB for large caliber weapons.
- (2) The moderate risk of complaint area consists of an area where the PK15(met) noise contour is between 115 dB and 130 dB for large caliber weapons.
- (3) The low risk of complaint area includes all areas around a noise source in which the PK15(met) noise contour is less than 115 dB for large caliber weapons.



FORT KNOX JOINT LANDUSE STUDY

Map G-1
Noise Contours
 PK15(met)





LEGEND

- Ft Knox Radius
 - 1 Mile
 - 5 Miles
- HIGHWAYS
 - ↗↘ US ROUTE
 - ↗↘ INTERSTATE/PARKWAY
 - ↗↘ State Route
- Airport
- COUNTY BOUNDARY
- Incorporated City
- CDNL (Decibels)
 - 57 LUP Zone
 - 62 Zone II
 - 70 Zone III

C-weighted Day-Night Level (CDNL)
 NOISE ZONES DESCRIPTIONS AND LAND USE GUIDELINES
 Day Night Level Descriptions.

(a) The Noise Zone III consists of the area around the source of the noise in which the level is greater than 70 decibels (dB). C-weighted day-night sound level (CDNL) for large caliber weapons. The noise level within Noise Zone III is considered so severe that noise-sensitive land uses should not be considered therein.

(b) The Noise Zone II consists of an area where the day-night sound level is between 62 and 70 dB CDNL for large caliber weapons. Exposure to noise within this area is considered significant, and use of land within Noise Zone II should normally be limited to activities such as industrial, manufacturing, transportation, and resource production. However, if the community determines that land in Noise Zone II areas must be used for residential purposes, then noise level reduction features of 25 to 30 decibels should be incorporated into the design and construction of the buildings.

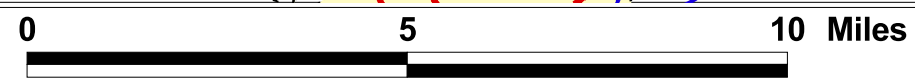
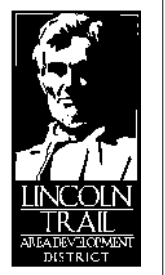
(c) The Noise Zone I include all areas around a noise source in which the day-night sound level is less than 62 dB CDNL for large caliber weapons. This area is usually acceptable for all types of land use activities.

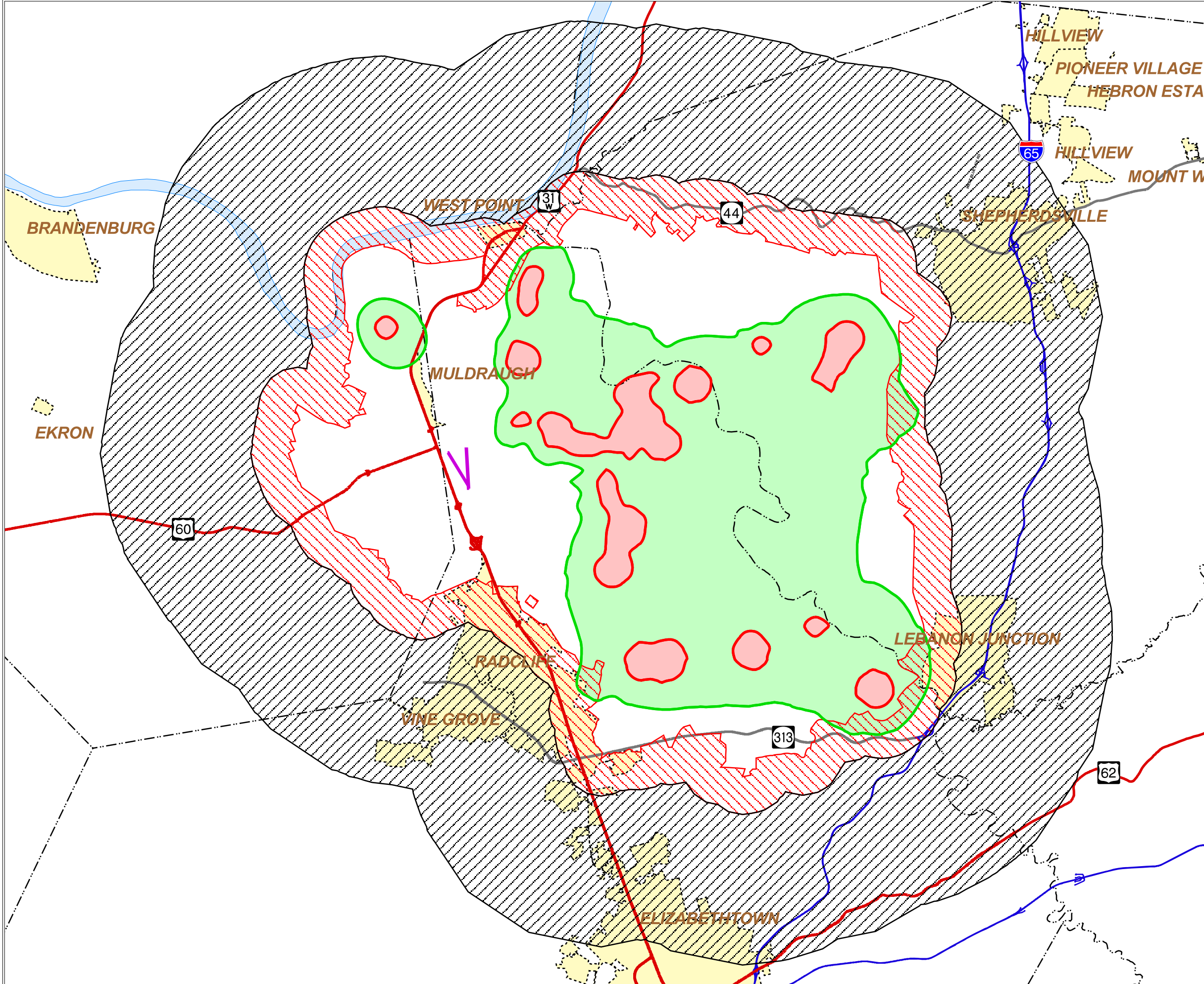
(d) The Land Use Planning Zone (LUPZ) DNL noise contours, 57 dB CDNL, represent an annual average that separates the Noise Zone II from the Noise Zone I. Taking all operations that occur over the year and dividing by the number of training days generates the contours. But, the noise environment varies daily and seasonally because operations are not consistent through all 365 days of the year. In addition, the Federal Interagency Committee on Urban Noise document states "Localities, when evaluating the application of these guidelines to specific situations, may have different concerns or goals to consider." For residential land uses, depending on attitudes and other factors, a 57 CDNL may be considered by the public as an impact on the community environment. In order to provide a planning tool that could be used to account for days of higher than average operations and possible annoyance, the LUPZ contour is being included on the noise contour maps.



FORT KNOX JOINT LANDUSE STUDY

Map G-2 Noise Contours CDNL





LEGEND

Ft Knox Radius
 1 Mile
 5 Miles

HIGHWAYS
 US ROUTE
 INTERSTATE/PARKWAY
 State Route

Airport
 COUNTY BOUNDARY
 Incorporated City

Small Arms PK15 (decibels)
 87 Zone II
 104 Zone III

Small Arms PK15
 NOISE ZONES DESCRIPTIONS AND LAND USE GUIDELINES
 1. Day Night Level Descriptions.
 (a) The Noise Zone III consists of the area around the source of the noise in which the level is greater than 104 PK15(met) for small arms. The noise level within Noise Zone III is considered so severe that noise-sensitive land uses should not be considered therein.
 (b) The Noise Zone II consists of an area where the day-night sound level is between 87 and 104 PK15(met) for small arms. Exposure to noise within this area is considered significant, and use of land within Noise Zone II should normally be limited to activities such as industrial, manufacturing, transportation, and resource production. However, if the community determines that land in Noise Zone II areas must be used for residential purposes, then noise level reduction features of 25 to 30 decibels should be incorporated into the design and construction of the buildings.
 (c) The Noise Zone I include all areas around a noise source in which the day-night sound level is less than 87 PK15(met) for small arms. This area is usually acceptable for all types of land use activities.



FORT KNOX JOINT LANDUSE STUDY

Map G-3
Noise Contours
 Small Arms PK15

