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# Routing Study and Environmental Report



**NextEra Energy Transmission Southwest, LLC** 

Wolf Creek - Blackberry 345-kV Transmission Line Project Project No. 119960

# Routing Study and Environmental Report

prepared for

NextEra Energy Transmission Southwest, LLC Wolf Creek - Blackberry 345-kV Transmission Line Project

Project No. 119960

prepared by

**Burns & McDonnell** Kansas City, Missouri

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#### LIST OF ABBREVIATIONS

Abbreviation Term/Phrase/Name

AECI Associated Electric Cooperative, Incorporated

APLIC Avian Power Line Interaction Committee

ASR Antenna Structure Registration

BMP Best Management Practice

BNSF Burlington Northern Santa Fe Railroad

CRP Conservation Reserve Program

CWA Clean Water Act

DASC Kansas Data Access and Support Center

DWR Kansas Division of Water Resources

EDGE Education Demographic and Geographic Estimates

ESA Endangered Species Act

EPA U.S. Environmental Protection Agency

FAA Federal Aviation Administration

FCC Federal Communications Commission

FEMA Federal Emergency Management Agency

GAP Gap Analysis Project

GIS Geographic Information System

gNATSGO Gridded National Soil Survey Geographic Database

GNIS Geographic Names Information System

IPaC Information for Planning and Consultation

KCS Kansas City Southern Railroad

KDHE Kansas Department of Health and Environment

KDOT Kansas Department of Transportation

KDWP Kansas Department of Wildlife and Parks

kV kilovolt

MDC Missouri Department of Conservation

MDNR Missouri Department of Natural Resources

mgd million gallons per day

NAIP National Agriculture Imagery Program

NASR National Airspace System Resource

NASS National Agricultural Statistics Service

NCED National Conservation Easement Database

NEET Southwest NextEra Energy Transmission Southwest, LLC

NHD National Hydrology Dataset

NITU Notice of Interim Trail Use

NPDES National Pollutant Discharge Elimination System

NPS National Park Service

NRCS Natural Resources Conservation Service

NRHP National Register of Historic Places

NWI National Wetland Inventory

PADUS Protected Areas Database of the U.S.

Q&A Question and answer

ROW right-of-way

SHPO State Historic Preservation Office

SKOL South Kansas and Oklahoma Railroad

SPP Southwest Power Pool

TERPS Terminal Instrument Procedures

THPO Tribal Historic Preservation Office

UP Union Pacific Railroad

U.S. United States

USACE U.S. Army Corps of Engineers

USDA U.S. Department of Agriculture

USDOT U.S. Department of Transportation

USEIA U.S. Energy Information Administration

USFS U.S. Forest Service

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

WRP Wetland Reserve Program

#### 1.0 INTRODUCTION AND PROJECT DESCRIPTION

In order to provide reliable electric service to the region and to meet the needs identified by the Southwest Power Pool, Inc. (SPP), NextEra Energy Transmission Southwest, LLC (NEET Southwest) proposes to design, build, and operate a new transmission line – the Wolf Creek to Blackberry 345-kilovolt (kV) Transmission Line Project (Project). The Project will connect Evergy, Inc's (Evergy) existing Wolf Creek Substation to Associated Electric Cooperative's (AECI) existing Blackberry Substation. The Project Study Area is in the following counties: Allen, Anderson, Bourbon, Cherokee, Coffey, Crawford, Neosho, and Woodson counties in Kansas, and Barton and Jasper counties in Missouri. The Project is needed to address the needs identified by SPP in its 2019 Integrated Transmission Planning Report to increase transmission capability in Kansas and Missouri.

NEET Southwest retained Burns & McDonnell to assist with the line routing for the Project. Burns & McDonnell assisted with the selection of routing alternatives and the preparation of this routing study and environmental report. This document contains a summary of the route identification and preferred route selection process, as well as the potential environmental impacts along the selected route.

The following chapters include a description of the Project, including the need for the Project (Chapter 1.0) and a description of the existing environmental and social conditions in the Study Area (Chapter 2.0). The analysis of routing alternatives is described in Chapter 3.0. Potential environmental impacts of the proposed Project are discussed in Chapter 4.0 and proposed mitigation measures are described in Chapter 5.0. Public involvement actives are summarized in Chapter 6.0, recent project modifications are summarized in Chapter 7.0, and references are provided in Chapter 8.0.

## 1.1 Description of the Project

To construct and operate a connection between the existing Wolf Creek Substation with the existing Blackberry Substation, NEET Southwest will require the construction of up to approximately 100 miles of 345-kV transmission line within an approximately 150-foot-wide easement. The easement width will be sufficient to provide the necessary configuration for the new line. The proposed line will be owned and operated by NEET Southwest. Alternative routes have been identified, and a preferred route was selected based on a route analysis process. The analysis is described in Chapter 3.0.

# 1.1.1 Purpose and Necessity

The continued integration of wind generation in SPP's western region has led to a need for additional transmission capacity capable of supporting bulk power transfers to the east. SPP's assessment of electric

energy requirements has identified the need to build a new 345-kV transmission line to relieve heavy congestion, increase reliability, and improve the transfer of bulk power to the east (SPP, 2019).

Currently, there are approximately five major transmission lines in the area roughly bounded by United States (U.S.) Highway 75, the Neosho County boundary, and Udall Road on the west, 18th Road on the north, the Kansas / Missouri state line and State Highway 43 on the east, and State Highway 103 / Weir Road on the south (the "Study Area"). The Study Area is approximately 1,643,130 acres in size, extending approximately 70 miles both east to west and north to south. Currently 2 large power plants, 32 different substations, and numerous transmission and distribution circuits direct power within this area.

#### 1.1.2 Location

The Study Area is located in southeast Kansas and southwest Missouri and includes at least portions of the following counties: Allen, Anderson, Bourbon, Cherokee, Coffey, Crawford, Neosho, and Woodson counties in Kansas, and Barton and Jasper counties in Missouri. Due to the size of the Study Area, none of the counties comprise more than 25 percent of the Study Area. However, most of the Study Area will be located in Crawford, Bourbon, Allen, Anderson, and Coffey counties. Figure 1-1 shows the region in which the Study Area is located.

## 1.1.3 Structures

Transmission line structures will consist of steel or concrete monopoles and guyed or self-supporting monopole structures for most of the new line. Ground clearance will meet or exceed the National Electrical Safety Code requirements for a 345-kV transmission line. Typical above-ground heights for the new structures will be approximately 110 to 130 feet, depending on the type of structure required. The structures will be spaced approximately 800 to 1,000 feet apart. Heights and spans may vary depending on the design, terrain, or measures to mitigate potential impacts of the line.

## 1.1.4 Right-of-Way

The route alternatives evaluated for the proposed Project will require an approximately 150-foot-wide right-of-way (ROW) to accommodate the transmission structures.

Doyle Land Services (Doyle) was selected by NEET Southwest to provide ROW acquisition strategies, programs, and procedures.

Wabaunsee Locator Map Douglas Illinois 195 County 56 County Kansas Missouri Lyon County Osage County Oklahoma Texas Arkansas Fran (263) 279 County 170 Miami County (131) 50 (1077 (130) 75 18 69 (530) 152 Wolf Creek Bates county Anderson Linn: County 10 Count Coffey County 57 (239) 1254 # 65 59 Greenwood [71] 54 Woodson Allen County County County Sounty County Vernon County-54 168 224 (203) 3 400 146 169 (108) 41 Wison Count 47) Neosho County Barlun D County Elk County 26 160 166 160 (57 160 133 Blackb Dade Coun 400 Blackberry/Wolf\_Creek\_2\_Blackberry.aprx VGA, ERA, USDA, NPS, Esri, HERE, NPS 1102 Chautauqua 69 Montgomery County (96) (222) Jasper County County 96 County Cherokee (571) 75 HO: (37)66 (134) Ff Kansas Washington Oklahoma C Osage County Ottawa 66 Nowata County Craic County 60 10 County (137) Creeklyvolf C HERE, Sarmin A Projec: Endpoint U.S. Highway Study Area State Highway Figure 1-1 Regional Map SBURNS MEDONNELL County Boundary Local Highway Wolf Creek - Blackberry D:\Wolf\_ ces: Esrl, I ☐ State Boundary 7.5 15 **NEET Southwest** = Interstate Miles

Figure 1-1: Regional Map

NEET Southwest's land agents will work with individual property owners to purchase easements for the new line. NEET Southwest pays fair market value for easements, and landowners retain ownership of the property with some limitations on the use of the land in the ROW. Under the agreement, property owners cannot place any permanent structures that would interfere with the conductors or restrict complete access for maintenance of the transmission line or ROW within the corridor.

# 1.2 Construction, Operation, and Maintenance

The transmission line will be constructed in several phases using both rubber-tired and track equipment. In environmentally sensitive areas, float track equipment may also be used during construction of the line. The appropriate materials will be delivered to each structure location for assembly. Holes for direct pole embedment or concrete foundations for structures will be dug with an auger, and the structures will be erected using a crane. Afterwards, the holes will be backfilled with crushed rock or flowable concrete, and any excess soil will be evenly distributed around each structure. The surrounding soil will then be stabilized. In wetland areas (if any), the method used for the installation of structures will depend on the nature of the sub-surface conditions. Excess soil from the holes in wetland areas will be transported to upland areas and stabilized. No concrete foundations are anticipated in wetlands. Conductors will be pulled through each structure using tensioning equipment. Danger trees will also be removed along the corridor. Danger trees are trees outside the cleared corridor that are tall enough to potentially impact the transmission line should the trees fall into the ROW.

Maintaining the ROW under, and immediately adjacent to, transmission lines is essential for the reliable operation of the line and public safety. ROW vegetation management will include periodic tree trimming removing danger trees and managing the height of other vegetation within the corridor. NEET Southwest will use an integrated vegetation management approach to include both chemical and limited mechanical control methods to maintain the ROW. Herbicides are the preferred method of maintaining the ROW. The use of herbicides will be applied to individual woody stems using a low volume backpack sprayer. NEET Southwest uses herbicides approved by the U.S. Environmental Protection Agency (EPA) for use on terrestrial and wetland transmission line ROW.

Inspections of the transmission line will occur on a regular basis and utilize both aerial and ground patrols. However, line maintenance would require only infrequent visits by NEET Southwest or its contractors. Most maintenance activities are on an approximate six-year cycle.

# 1.3 Project Schedule

The projected schedule for the Project is described below:

- Route selection: November 2020 May 2022
- ROW acquisition: Voluntary negotiations commenced in November 2021. ROW acquisition will
  be completed following receipt of all necessary regulatory approvals and permits, including
  certificates of convenience and necessity and line siting approval from the Kansas Corporation
  Commission (KCC) and Missouri Public Service Commission (MPSC).
- Construction: Following receipt of all necessary regulatory approvals and permits; estimated to begin in mid-2023
- In-service date: January 1, 2025

# 1.4 Project Cost

NEET Southwest has estimated a Project cost of \$85.2 million in 2021 dollars, subject to cost containment provisions set forth in NEET Southwest's bid to SPP. NEET Southwest provides more details on the proposed Project cost in its application and accompanying testimony.

#### 2.0 DESCRIPTION OF THE STUDY AREA

The following describes existing environmental conditions, including the natural and social resources located within the Study Area. The information presented in this chapter was obtained from publicly available data sets and observations made using on-line imagery and field windshield surveys.

# 2.1 Study Area Identification and Data Collection

The limits of the Study Area were established based on the location of the existing Wolf Creek 345-kV Substation (approximately one mile south of the intersection of 16<sup>th</sup> Road and Oxen Lane in Coffey County, Kansas), the location of the existing Blackberry 345-kV Substation (southeast of the intersection of Missouri Highway 177 and Sumac Road in Jasper County, Missouri), and a preliminary review of potential routing opportunities and constraints in the Study Area. The Study Area, which encompasses approximately 1,643,130 acres, is shown in Figure 2-1. The Study Area was defined to incorporate the potential Project endpoints while offering an area large enough to provide a set of reasonable and geographically distinct route alternatives.

After the Study Area boundary was identified, the Burns & McDonnell Project team initiated the information gathering process and the identification of environmental and land use constraints within the Study Area. Data was collected from publicly available sources, including federal, state, county, and local agencies. The result of the information gathering process was a constraint map that plotted environmental and land use constraints and was used in identifying preliminary alternative routes. The geographic locations of environmentally sensitive areas, restrictive areas, exclusion areas, land use constraints, etc., within the Study Area, were identified on an aerial photograph base map (Figure 2-2).

#### 2.2 Natural Resources

The following is a description of natural resources in the Study Area that could be affected by the construction and operation of the proposed Project. These resources include physiography, hydrology, vegetation, wetlands, and wildlife. The potential impacts of this Project upon these resources are described in Chapter 4.0.

## 2.2.1 Topography and Physiography

The Study Area lies entirely within the Prairie Parkland (Temperate) Province, which consists of alternating prairie and deciduous forest with mostly gently rolling plains and steep bluffs bordering some valleys (U.S. Forest Service [USFS], 2015). Elevation changes are generally relatively minimal with only

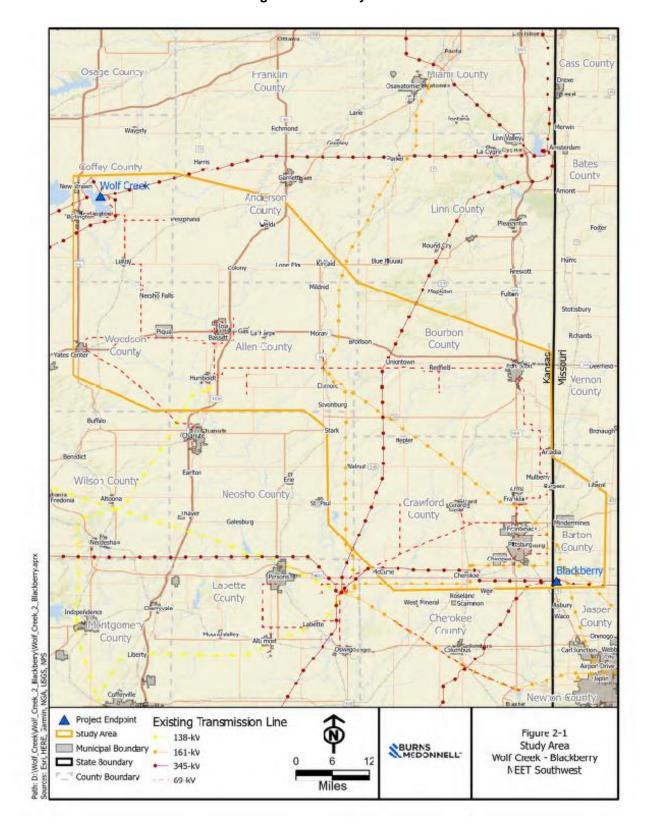


Figure 2-1: Study Area

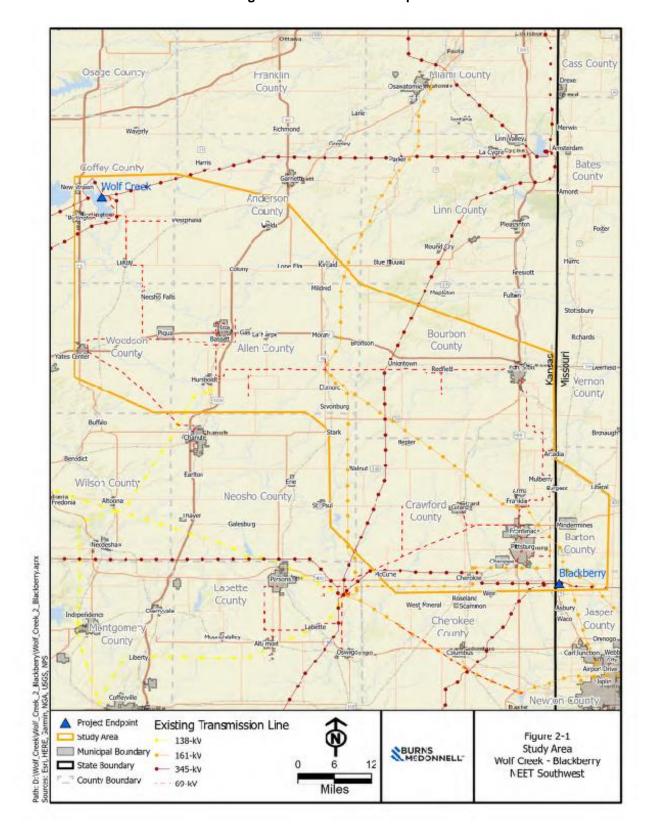


Figure 2-2: Constraint Map

a few hundred feet of elevation increase generally extending from the southeastern portion of the Study Area to the northwest. Elevations within the Study Area range from 751 to 1,214 feet above sea level (U.S. Geological Survey [USGS], 2020a).

#### 2.2.2 Soils

Land use patterns in the Study Area are influenced by the suitability and limitations of soil properties for development. The U.S. Department of Agriculture Natural Resources Conservation Service (USDA NRCS, 2018) has surveyed and mapped the soil units in the Study Area counties based on the physical properties and composition of the soil and the amount of slope and drainage where the soil is located. These soil maps are helpful in planning future land use and development.

Soil map units describe the soil characteristics in a specific geographic region. The Study Area consists of 58 different soil map units. The predominant soil map units that make up more than 50 percent of the Study Area include: the Pharoah map unit, comprised of very deep, somewhat poorly drained upland soils; the Olpe map unit, comprised of very deep, well drained upland or high-terrace gravelly soils; the Aliceville map unit, comprised of deep, moderately well drained sloping soils; the Ringo map unit, comprised of moderately deep, moderately well-drained upland soils; and the Verdigris map unit, comprised of very deep, well drained floodplain soils. Hydric soils comprise 9.3 percent of the soils in the Study Area and soils characterized as prime farmland comprise 84.9 percent of the soils in the Study Area.

Soils considered by the USDA to be highly erodible comprise approximately 18.2 percent of the Study Area (USDA NRCS, 2018). These areas are extrapolated from the USDA's aggregated Potential Erosion Hazard - Road / Trail ratings of moderate or severe for each map unit. These soils could be of concern during construction. Areas with shallow bedrock can also present concerns during foundation installation. The USDA has calculated a value called the Restrictive Layer Depth that represents any nearly continuous layers within a map unit that have a property that significantly impedes the movement of water and air or that restricts roots. For this study, the "representative" depth value was used. The Study Area consists of approximately 31.9 percent of soils with very shallow bedrock. This data is not a reliable substitute for completing soil borings to verify soil conditions prior to construction but may provide some indication of potentially troublesome areas.

## 2.2.3 Water Resources

Water resources within the Study Area can include surface waters, wetlands, floodplains, and aquifers. Below is a description of the specific features within the Study Area.

## 2.2.3.1 Surface Water

According to a USGS study, the Study Area counties receive an average total of approximately 43.0 inches of rainfall a year. Surface water is the primary source of water for most residents in all Study Area counties (USGS, 2015). The USGS study showed that estimated surface water usage in the Study Area counties averaged approximately 3.3 million gallons per day (mgd), and the estimated average groundwater usage was less than 0.1 mgd, with an average of 1.8 mgd total water usage. The average per capita usage for these counties was estimated to be approximately 140.0 gallons per day.

The Study Area lies within the Neosho, Osage, and Verdigris River Basins. The Neosho River Basin extends approximately 275 miles generally along the Neosho River, starting in Morris County in east central Kansas and continuing southeast into Oklahoma, Missouri, and Arkansas. It encompasses approximately 1,650 square miles in Arkansas, Kansas, Missouri, and Oklahoma and 1,053,208 acres within the Study Area. The Neosho River Basin includes one sub-basin within the Study Area: Spring sub-basin (USGS, 2018a).

The Osage River Basin extends approximately 275 miles starting near Osage County in east-central Kansas and extending east / southeast into central and southwestern Missouri and encompasses approximately 910 square miles in Kansas and Missouri and 581,632 acres within the Study Area. The Osage River Basin includes one sub-basin within the Study Area: Marmaton sub-basin (USGS, 2018a).

The Verdigris River Basin extends approximately 200 miles starting in Lyon County in east-central Kansas and extending generally south into Oklahoma and encompasses approximately 13 square miles in Kansas and Oklahoma and 8,300 acres within the Study Area. The Verdigris River Basin includes one sub-basin within the Study Area: Upper Verdigris sub-basin (USGS, 2018a).

Numerous hydrological features are found within the Study Area, with named streams including the Neosho River; Marmaton River; Lightning Creek; Rock Creek; Owl Creek; Walnut Creek; Elm Creek; Deer Creek; Cherry Creek; Limestone Creek; Cedar Creek; Big Creek; Coal Creek; Crooked Creek; Paint Creek; Long Creek; Flat Rock Creek; Second Cow Creek; West Fork Dry Wood Creek; and Wolf Creek. Named lakes and ponds include: Bone Creek Reservoir; Fort Scott Lake; Crawford Lake; Blackberry Hay Farm Lake; Yates Center Reservoir; Elm Creek Lake; Rock Creek Lake; Mathias Lake; Welda Lake; Katy Lake; Number 180 Reservoir; Circle Lake; Spencer Lake; Mildred Lake; Bassola Lake; Gardner Farms Lake; Frisco Lake; Boyers Lake; Dawson Lake; and Nyman Lake (USGS, 2018a).

#### 2.2.3.2 Wetlands

Wetlands are areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, vegetation adapted for life in saturated soil conditions. Wetlands filter sediments and contaminants, reduce flood damage, provide breeding grounds for fish and wildlife, including endangered species, and protect shorelines from erosion. Reducing and preventing loss and damage to wetlands is a primary goal of the Clean Water Act (CWA) (U.S. Corps of Engineers [USACE], no date).

Most wetlands found within the Study Area are categorized as palustrine, which are non-tidal, vegetated wetlands defined by dominant plant species, such as trees, shrubs, and emergent (herbaceous) plants (Cowardin et al., 1979). The Study Area contains three main groups of palustrine wetlands: emergent, forested / scrub-shrub, and freshwater ponds. Freshwater ponds and emergent wetlands are the most common palustrine wetlands within the area. Most of the wetlands within the Study Area are along streams and around lakes and ponds, as well as associated with reclaimed mine areas (U.S. Fish and Wildlife Service [USFWS], 2018).

## 2.2.3.3 Floodplains

The Federal Emergency Management Agency (FEMA) has mapped floodplains within the Study Area. The most prominent floodplains that have been mapped in the Study Area are associated with the Wolf Creek Generating Station Lake and the Neosho River, as well as locations along Long Creek, Indian Creek, and East Cow Creek (FEMA, 2018). Most of the floodplains, as mapped by FEMA, are relatively narrow and can likely be spanned with strategic structure placement. The Kansas Department of Agriculture Division of Water Resources regulates floodplain fills and impacts to regulatory floodways in the state of Kansas and the Missouri State Emergency Management Agency administers the National Flood Insurance Program for Missouri.

#### 2.2.3.4 Subsurface Waters and Features

An aquifer is a geologic formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs (USGS, 2017). Aquifers that are shallow may be affected by the installation of foundations for the transmission line structures. According to groundwater data managed by the USGS (2017), the Project Study Area does not fall within a specific principal aquifer but is in an area that contains rocks that are minimally permeable but may contain locally productive aquifers.

A karst is a type of landscape where the dissolving of the bedrock has created sinkholes, caves, springs, and other characteristic features. They are associated with soluble rock types such as limestone, marble, and gypsum (National Park Service [NPS], 2018). NEET Southwest contracted with Terracon to assess the Study Area for the risk of the presence of karst features. Much of the Study Area falls within areas that have a potential for karst features. The risk is lowest in the southeastern and northwestern corners of the Study Area.

# 2.2.4 Vegetation

The Study Area is relatively flat with some slopes associated with streams and reclaimed mine areas with intermingled prairie, pasture, cropland, and strips of largely deciduous trees. Wooded areas consist primarily of oak, hickory, eastern cottonwood, black willow, American elm, and red cedar (Bailey, 2020). Other vegetation in the Study Area includes rough-leaved dogwood, smooth sumac, elderberry, prairie rose, chokecherry, American hazelnut, and buttonbush (Kansas Native Plants, 2018). Crops within the Study Area consist primarily of soybeans, corn, and winter wheat (USDA National Agricultural Statistics Service [NASS], 2017).

## 2.2.4.1 Federally Listed Plant Species

The USFWS developed a service called Information for Planning and Consultation (IPaC) that provides a listing of protected species and lands within the Study Area and by county. There is one federally protected plant species that may occur within the Study Area based on the USFWS IPaC results retrieved on January 7, 2021. This species is Mead's milkweed (threatened) (USFWS, 2020a). Mead's milkweed occurs primarily in tallgrass prairie with a late successional bunch-grass structure, as well as in hay meadows and thin soil glades or barrens (USFWS, 2003).

#### 2.2.5 Wildlife

Wildlife species found in southeast Kansas and southwest Missouri are likely to be present within the Study Area. Mammal species potentially occurring in the Study Area include: white-tailed deer, Virginia opossum, nine-banded armadillo, eastern cottontail, woodchuck, eastern fox squirrel, deer mouse, eastern woodrat, coyote, and raccoon (Great Plains Nature Center, 2013).

Bird species found within the Study Area include waterfowl species, such as mallard, northern pintail, green-winged teal, Canada geese, and snow geese (Kansas Department of Wildlife and Parks [KDWP], 2020). Other bird species may include the following: turkey vulture, red-tailed hawk, northern cardinal, mourning dove, great horned owl, red-headed woodpecker, common grackle, blue jay, American crow, and American goldfinch (Otte and Gress, 2012).

Reptiles and amphibians potentially found within the Study Area include American toad, American bullfrog, spring peeper, eastern tiger salamander, snapping turtle, painted turtle, broadhead skink, gopher snake, common garter snake, and western massasauga (Taggart and Riedle, 2017).

# 2.2.5.1 Federally Listed Animal Species

Based on a review of the USFWS' IPaC results for the Study Area completed on January 7, 2021, there are seven federally protected animal species that may occur within the Study Area. Table 2-1 lists the federally listed animal species potentially found within the Study Area.

Gray bats are a cave dwelling bat species. They forage for insects in forests and riparian corridors. KDWP has designated critical habitat for this species as suitable woodlands and water bodies within the southeast portion of Crawford County, Kansas. The U.S. Fish and Wildlife Service (USFWS) and State of Missouri have not designated critical habitat for this species. The gray bat hibernates in the winter in deep, vertical caves and roosts in the summer in caves scattered along rivers. They may forage for insects along rivers and lakes (USFWS, 2019a).

The Indiana bat occurs in Missouri but is not likely to occur in Kansas. The Indiana bat hibernates in the winter in caves or occasionally abandoned mines (USFWS, 2019b). During the summer, the Indiana bat may roost beneath loose bark of live, dead, or dying trees. Roosting and foraging habitat includes forests, wooded fence rows, and riparian areas.

The northern long-eared bat occurs in Kansas and Missouri. The northern long-eared bat hibernates in caves or abandoned mines during the winter. During the summer, the northern long-eared bat may roost beneath loose bark of live, dead, or dying trees. Additionally, the northern long-eared bat may roost in barns, in sheds, under bridges, or in other buildings that have little human disturbance. Female northern long-eared bats typically roost in a maternity colony, while male northern long-eared bats tend to roost singly or in small groups. Roosting and foraging habitat includes forests, wooded fence rows, and riparian areas (USFWS, 2020b).

The Neosho madtom is a fish species found in stream riffles over loosely packed gravel bottoms (USFWS, 2019c).

The Ozark cavefish is a fish species that lives in cave streams and springs (USFWS, 2019d).

Table 2-1: USFWS Federally Listed Animal Species by County

| Common                        | Federal<br>Status | Kansas |          |         |          |        |          |        |        | Missouri |        |        |
|-------------------------------|-------------------|--------|----------|---------|----------|--------|----------|--------|--------|----------|--------|--------|
| Name                          |                   | Allen  | Anderson | Bourbon | Cherokee | Coffey | Crawford | Jasper | Neosho | Woodson  | Barton | Jasper |
| Gray bat                      | Endangered        |        |          |         |          |        | X        | X      |        |          | X      | X      |
| Indiana bat                   | Endangered        |        |          |         |          |        |          | X      |        |          | X      | X      |
| Northern<br>long-eared<br>bat | Threatened        | X      | X        | X       | X        | X      | X        | X      | X      | X        | X      | X      |
| Neosho<br>madtom              | Threatened        | X      |          |         | X        | X      |          | X      | X      | X        |        | X      |
| Ozark<br>cavefish             | Threatened        |        |          |         | X        |        |          | X      |        |          |        | X      |
| Neosho<br>mucket              | Endangered        | X      |          |         | X        | X      |          | X      | X      | X        | X      | X      |
| Rabbitsfoot                   | Threatened        | X      |          |         | X        | X      |          | X      | X      | X        | X      | X      |

**USFWS IPAC** 

The Neosho mucket is associated with shallow riffles and runs with a gravel substrate and moderate to swift currents in some Kansas and Missouri rivers (USFWS, 2020c). The IPaC also indicates that the Study Area overlaps critical habitat identified for the Neosho mucket.

The rabbitsfoot inhabits small to medium sized streams and some larger rivers, in shallow water along banks and adjacent runs and shoals with low water velocity and a gravel or sand substrate (USFWS, 2020d). The IPaC indicates that the Study Area overlaps critical habitat identified for the rabbitsfoot.

The KDWP has also identified many state-threatened and endangered animal species in the Study Area. Other than fish, mussels, and other aquatic species (which are not likely to be impacted by the Project because streams and creeks will be spanned), there are three species with designated state critical habitat located within the Study Area: broadhead skink, eastern skunk, and the gray bat. The broadhead skink critical habitat is comprised of all stands of mature oak woodland or stands of suitable timber in Bourbon and Crawford counties within the Study Area (KDWP, 2020b). The eastern spotted skunk prefers forest edges and upland prairie grasslands, especially where rock outcrops and shrub clumps are present, as well as riparian corridors, woody fencerows, and abandoned farm buildings. Critical habitat for the skunk may be found within Anderson and Woodson counties in the Study Area (KDWP, 2020c). The gray bat is almost totally cave dwelling, dependent on storm sewers in Crawford and Cherokee counties. Nearby streams with adjacent woodlands provide the critical foraging habitat for the species and they may use woody stream corridors and linear tree plantings as travel lanes. The designated state critical habitat for the gray bat is defined roughly as the southeast quadrant of Crawford County and along Cow Creek into Cherokee County (KDWP, 2020d). Non-aquatic species with no state critical habitat designated within the Study Area include the least tern, piping plover, snowy plover, American burying beetle, and the whooping crane.

There are also several species listed as state endangered or threatened by the Missouri Department of Conservation (MDC) within Barton and Jasper counties in the Study Area. Species in Barton County include Mead's milkweed, plains spotted skunk, northern harrier, redfin darter, and greater prairie chicken (MDC, 2020a). State threatened and endangered species in Jasper County include the gray bat, American bittern, black-tailed jackrabbit, greater prairie chicken, Neosho madtom, Neosho mucket, northern harrier, Ozark cavefish, rabbitsfoot, and the redfin darter (MDC, 2020b).

The Project is within the range of the bald eagle and the winter range of the golden eagle, both of which are protected under the Bald and Golden Eagle Protection Act.

# 2.2.6 Managed / Protected Lands

Several (42) park and recreation areas and lands managed by federal, state, local, and private entities are located within the Study Area.

In addition to managed lands, private and public organizations are working to conserve and protect natural areas, riparian buffers, farmlands, watersheds, and other "special" places, often on private land. The form of protection varies, from relatively simple agreements that include conservation land management practices, to more complex and restrictive agreements that may prohibit virtually any disturbance of the land. The agreements, even if between private landowners and private organizations, can involve the use of state or federal grant funds. The agreements can be short-term, last several years, or be in perpetuity. These lands are typically called conservation easements. There are 12 known conservation easements located within the Study Area (National Conservation Easement Database [NCED], 2018).

Similarly, certain state and federal regulatory programs require mitigation for the unavoidable loss of resources resulting from activities that the programs regulate. The most common example is the CWA Section 404 (wetlands) regulatory program, which requires mitigation for permitted wetland losses through enhancement, restoration, or creation of other wetlands. Those mitigation lands are protected from further development, typically by perpetual easements. It can be difficult to identify mitigation lands in an area without detailed land title research. No mitigation lands have been identified in the Study Area using parcel ownership information and other data sources to identify state and federal lands that are not associated with other managed lands.

Below is a description of the primary managed lands, including conservation easements and known mitigation lands (if any), located within the Study Area.

# 2.2.6.1 Federally Owned / Managed Lands and Easements

According to the USGS Geographic Information System (GIS) data managed by the USGS (2018b), there are 14 lands within the Study Area that are owned and managed by the Federal government. These lands or tracts range in size from approximately 5.9 to 158.9 acres and include: NRCS wetland reserve program (WRP) lands; the NPS's Fort Scott National Historic Site; and the USACE's John Redmond Reservoir. NRCS WRP lands are scattered throughout the Study Area. The Fort Scott National Historic Site is in Fort Scott, and John Redmond Reservoir just slightly extends into the northwestern edge of the Study Area.

# 2.2.6.2 State Owned / Managed Lands and Easements

According to the USGS data (2018b), 20 tracts of land within the Study Area are owned and managed by the State(s) of Kansas and Missouri. These tracts range from approximately 5.5 to 3,043 acres in size and include: KDWP Bourbon State Lake and Wildlife Area; KDWP Crawford State Park; Missouri Department of Natural Resources (MDNR) Prairie State Park and adjacent lands (MDC East Drywood Creek Natural Area; MDC Regal Prairie Natural Area; and MDC Tzi-Sho Prairie Natural Area); MDC Shawnee Trail Conservation Area; KDWP Neosho Wildlife Area; KDWP Mined Land Wildlife Areas, Pittsburg area 1-8 and Scamman area 26; MDC Lester R. Davis Memorial Forest; KDWP Hollister Wildlife Area; MDC Hunkah Prairie Natural Area; MDC Mon-Shon Prairie Conservation Area; KDWP Robb Prairie; and the KDWP Prairie Spirit Rail-to-Trail. Most of these state managed lands are in the southern half of the Study Area in eastern Crawford County, western Barton County, and southern Bourbon County in Kansas. The Prairie Spirit Trail crosses the Study Area diagonally from the northeast in Anderson County to southwest into Allen County, Kansas.

## 2.2.6.3 County / Locally Owned / Managed Lands and Easements

There appear to be no locally owned managed lands or easements within the Study Area.

# 2.2.6.4 Privately Owned Lands and Easements

There are very few (four) privately-owned conservation lands within the Study Area. These are all Nature Conservancy Anderson County Prairie tracts (USGS, 2018b). These private tracts range in size from approximately 50.9 to 1,269 acres and are in the northeastern portion of the Study Area in Anderson County, Kansas. There are some privately-owned conservation and hunting lands throughout the Study Area, based on a review of parcel data, but these lands do not appear to involve any federal, state, or non-governmental agency reviews or authorizations.

## 2.3 Social Resources

The following is a description of the social resources in the Study Area that could be impacted by the construction and operation of the proposed Project. Topics addressed include patterns of land use and socioeconomics, cultural resources, and visual character.

## 2.3.1 Land Use and Development Patterns

This section contains information on general land use patterns, agriculture, urban areas, recreation areas, transportation, and utilities within the Study Area.

Thirty-seven municipalities occur within the Study Area; the ten largest include: Pittsburg; Fort Scott; Iola; Frontenac; Girard; Burlington; Humboldt; Arma; Yates Center; and Cherokee. The Study Area largely consists of scattered rural residential development and agricultural practices with some more densely residential and commercially developed areas and reclaimed mine lands around Pittsburg and other larger towns in the Study Area.

### 2.3.1.1 Agriculture

Agricultural land uses can include more common uses, such as cropland and pastureland, to less common uses, such as pine plantations, orchards, and aquaculture. It is useful to determine the most common types of agricultural practices in an area to evaluate the potential for farm owner concerns associated with transmission lines. Transmission structures may somewhat alter the ways in which a farmer is able to plant, plow, and cultivate crops and may also reduce the amount of land on which to grow crops by a small amount. The extent of irrigation practices, such as center-pivot systems, can also be limited by transmission structures. It can be difficult to identify feasible routes that do not impact irrigation in areas with concentrations of center-pivot systems.

Most of the Study Area is comprised of pasture and cropland, interspersed with wooded fringes around streams and wetlands, some hay land, and some prairie lands. There is a concentration of cropland along the Neosho River corridor. Less pasture and cropland are present around Pittsburg, where there is more development and reclaimed mine lands. Approximately 29.5 percent of the Study Area is comprised of cropland (484,342 acres). There is relatively little center-pivot irrigation in this region of Kansas, although there are several systems located in the southeastern portion of the Study Area, mostly in Barton County, Missouri, and a few located in the northwestern portion of the Study Area in Coffey County, Kansas.

The USDA publishes a Census of Agriculture approximately every five years that summarizes agricultural characteristics by state and county. Table 2-2 summarizes the key agricultural characteristics of the state and counties within the Study Area (USDA NASS, 2017).

The top five crops are the same for each county in the Study Area; however, the counties vary in the order in which the crops are grown. Soybeans are the primary crop for almost all the counties. Based on the agricultural census, the primary crops grown in all the counties, in varying order, are soybeans, forage, hay, corn, and wheat (USDA NASS, 2017).

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Routing Study and Environmental Report

Description of the Study Area

 Table 2-2:
 Agricultural Characteristics for Kansas and Missouri and Study Area Counties

| Characteristic  | KANSAS                    | Allen                 | Anderson              | Bourbon               | Cherokee              | Coffey                | Crawford              | Neosho                | Woodson               | MISSOURI               | Barton                | Jasper                |
|---|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Number of farms   | 58,569                    | 505                   | 611                   | 813                   | 756                   | 699                   | 777                   | 687                   | 289                   | 95,320                 | 865                   | 1,315                 |
| Land in farms (acres)   | 45,759,319                | 239,906               | 364,522               | 336,045               | 319,315               | 386,279               | 335,118               | 323,092               | 282,986               | 27,781,883             | 331,013               | 264,509               |
| Average farm size (acres)   | 781                       | 475                   | 597                   | 413                   | 422                   | 553                   | 431                   | 470                   | 979                   | 291                    | 383                   | 201                   |
| Land enrolled in<br>conservation reserve,<br>wetland reserve, farmable<br>wetlands, or other<br>enhancement programs<br>(acres) | 2,307,445                 | 9,441                 | 7,895                 | 11,164                | 713                   | 17,244                | 8,777                 | 10,701                | 3,844                 | 1,053,287              | 14,456                | 3,792                 |
| Irrigated land (acres)  | 2,503,386                 | 548                   | 2,927                 | 634                   | 995                   | 1,148                 | 1,377                 | 845                   | 0                     | 1,529,155              | 21,682                | 5,315                 |
| Market value of crop sales (\$, %)  | \$6,460,437,000<br>(34%)  | \$31,210,000<br>(65%) | \$80,868,000<br>(74%) | \$24,925,000<br>(32%) | \$81,160,000<br>(76%) | \$46,874,000<br>(65%) | \$62,355,000<br>(73%) | \$45,836,000<br>(56%) | \$27,749,000<br>(53%) | 5,476,314,000<br>(52%) | \$80,550,000<br>(61%) | \$46,728,000<br>(48%) |
| Market value of livestock sales (\$, %)   | \$12,322,289,000<br>(66%) | \$16,725,000<br>(35%) | \$27,909,000<br>(26%) | \$54,009,000<br>(68%) | \$25,796,000<br>(24%) | \$24,818,000<br>(35%) | \$23,585,000<br>(27%) | \$36,032,000<br>(44%) | \$24,801,000<br>(47%) | 5,049,623,000<br>(48%) | \$51,494,000<br>(39%) | \$50,512,000<br>(52%) |

USDA NASS, 2017

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Primary livestock produced in each of the 10 Study Area counties include cattle and calves, cattle for beef, sales of cattle and calves for husbandry, and egg-laying chickens. Some counties also produce turkeys, horses, hogs, goats, and rabbits (USDA NASS, 2017).

# 2.3.1.2 Urban and Developed Areas

When siting transmission lines, it is preferable to minimize potential impacts to residences and urban areas, if possible. The public generally prefers that new transmission lines be located as far away from their homes, businesses, and public facilities as possible. Therefore, it is important to understand the population density, housing units, and development trends of the area when identifying new transmission line routes. Population is also an important consideration, which is summarized in Section 2.3.2.1. Table 2-3 displays the population density, housing units, and amount of land within the state, counties, and largest cities or towns within the Study Area (U.S. Census Bureau, 2017).

The population density of Crawford County (KS) and Jasper County (MO) were well above that of their respective States. The population density of Allen County (KS), Anderson County (KS), Barton County (MO), Bourbon County (KS), Coffey County (KS), and Woodson County (KS) were all well below their respective States. The population density of Cherokee County and Neosho County were within 25% of the State's population density. Counties with population densities greater than the State tend to be more developed than those with population densities well below the State. More densely developed areas can be more difficult in which to site feasible transmission line alternatives. There can also be dense concentrations of development, such as cities, in the less densely developed counties, and subdivisions, in the less densely developed cities, that need to be identified during the routing process. The number of housing units can also indicate more densely developed areas. In 2017, Jasper County (MO) and Crawford County (KS) had the greatest number of housing units, while Woodson County (KS) and Anderson County (KS) had the least. Among the cities within the Study Area, Pittsburg and Fort Scott had the greatest number of housing units and Cherokee and Arma had the least.

The Study Area is comprised mostly of scattered rural residences, except for the Pittsburg area in the south and along U.S. Highway 69 where there is denser residential and commercial development. Crawford County, Allen County, and Bourbon County comprise most of the land area within the Study Area. Pittsburg and Fort Scott are the largest cities in terms of area within the Study Area, as well as population density and housing units.

Table 2-3: Population Densities, Housing Units, and Land Area for the State, Counties, and the Ten Largest Cities/Towns Within the Study Area

| State / County / City | Population Density<br>(persons/sq. mi) | Housing Units | Land Area within<br>Study Area<br>(acres) |
|-----------------------|--|---------------|---|
| KANSAS                | 35.0                                   | 1,233,215     | 1,563,191                                 |
| Allen County          | 24.8                                   | 6,226         | 321,002                                   |
| Anderson County       | 13.4                                   | 3,720         | 184,472                                   |
| Bourbon County        | 23.1                                   | 7,167         | 313,826                                   |
| Cherokee County       | 34.0                                   | 9,890         | 26,146                                    |
| Coffey County         | 12.6                                   | 3,964         | 143,061                                   |
| Crawford County       | 65.6                                   | 17,801        | 377,006                                   |
| Neosho County         | 27.7                                   | 7,513         | 47,224                                    |
| Woodson County        | 6.2                                    | 2,022         | 150,455                                   |
| MISSOURI              | 88.0                                   | 2,712,729     | 79,940                                    |
| Barton County         | 19.9                                   | 5,600         | 66,094                                    |
| Jasper County         | 187.5                                  | 50,668        | 13,846                                    |
| CITIES                | -                                      | -             | -   |
| Pittsburg             | 1,572.9                                | 9,210         | 8,252                                     |
| Fort Scott            | 1,402.0                                | 3,819         | 3,571                                     |
| Iola                  | 1,127.9                                | 2,636         | 3,074                                     |
| Frontenac             | 672.3                                  | 1,519         | 3,235                                     |
| Girard                | 1,127.5                                | 1,228         | 1,559                                     |
| Burlington            | 1,242.1                                | 1,296         | 1,124                                     |
| Humboldt              | 1,307.6                                | 923           | 924                                       |
| Arma                  | 1,343.0                                | 736           | 731                                       |
| Yates Center          | 439.3                                  | 821           | 1,324                                     |
| Cherokee              | 1,046.5                                | 324           | 454                                       |

U.S. Census Bureau, 2017

There are 3 colleges / universities, 20 elementary schools, 8 middle schools, and 14 high schools located within the Study Area (National Center for Education Statistics, 2017). Most of these schools are located in cities and towns. Colleges include Pittsburg State University, Allen Community College, and Fort Scott Community College. Elementary schools within the Study Area include: Northeast; R.V. Haderlein; Jefferson; George E. Nettels; Burlington; Crest; Lincoln; Eugene Ware; Winfield Scott; Marmaton Valley; Leroy; Frank Layden; Humboldt; McKinley; Lakeside; Westside; Meadowlark; West Bourbon;

Westphalia; and Yates Center. Middle schools within the Study Area include: Frontenac Junior High; Southeast Junior High; Iola Middle; Fort Scott Middle; Humboldt Middle; Burlington Middle; Girard Middle; and Pittsburg Middle. High schools within the Study Area include: Humboldt; Fort Scott; Iola; Crest; Southern Coffey County; Marmaton Valley; North East; Burlington; Pittsburg; Yates Center; Southeast; Uniontown; Frontenac; and Girard.

There are several quarries and landfills scattered throughout the Study Area. Some larger sites are owned by the Monarch Cement Company, Nelson Quarries, Mulberry Limestone Quarry Company, Midwest Minerals, and U.S.A Waste Services Kansas Landfills, Inc. Beginning in the mid- to late 1800's, both subsurface and strip coal mining became a prominent industry in southeast Kansas, including Crawford and Cherokee Counties, and was a major factor in the development of the area. Some mining camps later became communities, such as Frontenac. After peak production in 1926, most of the mining ended by 1970 and all mines were closed by 1997 (Kansas Historical Society, 2018). Today, the southeastern portion of the Study Area contains evidence of extensive former mining activity, including abandoned and reclaimed sub-surface and surface strip coal mines and tailings.

### 2.3.1.3 Recreation Areas

Outdoor recreational opportunities, such as hunting and fishing, can be found in reclaimed strip mine lands and other woods, as well as in and around lakes, ponds, and creeks and their riparian woodlands within the Study Area. There are large tracts of land managed for private hunting clubs. Existing parks, such as Schlanger Park, Winston Park, Gunn Park, Deramus Park, and Lincoln Park, and several golf courses and country clubs, including Four Oaks, Cedar Brook, Countryside, Crestwood, and Girard are also found largely in and around the cities and towns within the Study Area (USGS, 2018b; ESRI, 2019a; ESRI, 2019b; USGS, 2020b).

# 2.3.1.4 Transportation and Aviation

The Kansas Department of Transportation (KDOT) is responsible for coordinating and developing comprehensive transportation policies and developing and operating transportation facilities and services across the State.

The Study Area is crossed by six U.S. highways and 13 state highways, and numerous smaller, local roadways. U.S. 54 extends east / west through the central portion of the Study Area. U.S. 69 extends north / south along the eastern edge of the Study Area. U.S. 69 is also the Frontier Military Historic Byway that extends 167 miles from Fort Leavenworth south to the Oklahoma border, which approximates the old military trail used by the Army to transport troops and supplies between the frontier forts (KDWP,

2011). U.S. 59 runs north / south through the north-central portion and then along the western edge of the southern portion of the Study Area; U.S. 169 extends generally north / south through the north-central portion of the Study Area; and U.S. 75 extends north / south along the northwestern edge of the Study Area. State Highway (SH) 58 extends east / west through the northern portion of the Study Area between U.S. 75 and U.S. Highway 169; SH 7 extends predominately north / south through the south-central portion of the Study Area; SH 3 extends north / south through the central portion of the Study Area; SH 126 extends largely east / west in the southern portion of the Study Area; and SH 39 and SH 146 both run east / west through the southern portion of the Study Area (ESRI, 2016).

Five single-track rail lines extend through the Study Area. The Union Pacific (UP) Railroad Parsons, Coffeyville, and Wolf Creek Lead tracks extend largely north / south in the northwestern and central portions of the Study Area; the Burlington Northern Santa Fe (BNSF) Railroad Fort Scott, Afton, and Gorilla branches extend largely north / south through the southeastern portion of the Study Area; and the South Kansas and Oklahoma (SKOL) and Kansas City Southern (KCS) railroads both cross the southeastern corner of the Study Area (U.S. Department of Transportation Bureau of Transportation Statistics [USDOT], 2018). Many abandoned railroad corridors are present in Crawford and Cherokee counties that were removed in the 1920's and 1930's due to the decline in coal mining (Powell, 1972).

There are three public airports in the Study Area: Fort Scott Municipal is located approximately 2.5 miles southwest of Fort Scott in the eastern portion of the Study Area; Allen County is located east of U.S. Highway 69 about 1.75 miles south of Iola; and Atkinson Municipal is located approximately 2.75 miles northwest of central Pittsburg. There are eight privately-owned airstrips located primarily in the southern half of the Study Area around Pittsburg and Fort Scott (Federal Aviation Administration [FAA], 2020).

### 2.3.1.5 Utilities and Communication Towers

There are several large power plants, wind farms, and many (32) electrical substations located within the Study Area. The Evergy-owned Wolf Creek Generating Station is in the northwestern corner of the Study Area and the Empire District Electric Company owned Asbury Power Plant is in the southeastern corner of the Study Area. Prairie Queen Wind Farm, owned by EDP Renewables, is in the north-central portion of the Study Area. The Jayhawk Wind Farm, owned by The Empire District Electric Company, is in the central portion of the Study Area. The electrical substations are scattered throughout the Study Area (Hitachi ABB Power Grid, 2016).

There are approximately 37 transmission lines that extend through the Study Area. The primary lines include: the Marmaton to Litchfield 161-kV and 69-kV lines; Neosho to La Cygne 345-kV line;

Litchfield to Asbury 161-kV line; Litchfield to Neosho 161-kV line; Blackberry to Neosho 345-kV line; Marmaton to Neosho 161-kV line; and Centerville to Marmaton 161-kV transmission line (U.S. Energy Information Administration [USEIA], 2018; Hitachi ABB Power Grid, 2016) (Figure 2-1). The Marmaton to Litchfield 161-kV transmission line extends generally southeast / northwest through the south-central portion of the Study Area in Crawford, Bourbon, and Allen counties. The Marmaton to Litchfield 69-kV transmission line runs north / south along the eastern Study Area boundary in Crawford and Bourbon counties and then turns east / west through central Bourbon County. The Neosho to La Cygne 345-kV transmission line extends generally southwest / northeast through Crawford and Bourbon counties. The Litchfield to Asbury 161-kV transmission line extends generally southeast / northwest in the southeastern corner of the Study Area in Jasper and Barton counties. The Litchfield to Neosho 161-kV and Blackberry to Neosho 345-kV transmission lines extend east / west along the southern boundary of the Study Area in Crawford and Cherokee counties. The Marmaton to Neosho and Centerville to Marmaton 161-kV transmission lines extend generally north / south through Crawford, Allen, and Anderson counties in the southwestern and central portions of the Study Area.

In addition to high voltage electric transmission lines, there are also several large diameter natural gas, oil, and petroleum pipelines that crisscross the Study Area. Lines appear to be operated by Southern Star Central Gas Pipeline, Magellan Midstream Partners, Enbridge, and BP. Most pipelines extend from the northeastern portion of the Study Area into Anderson and Allen counties converging on an area south of Humboldt, Kansas, while other pipelines extend from the east or southeast across Bourbon and Crawford counties into Allen County.

There are also 213 communication towers located within the Study Area. These include antenna structure registrations (ASR), microwave, FM radio, and paging towers scattered throughout the entire Study Area, with some concentrations around Fort Scott and Pittsburg within the Study Area (Federal Communications Commission [FCC], 2018).

#### 2.3.2 Socioeconomic Patterns

This section contains data on population and employment in the following Study Area counties: Allen, Anderson, Bourbon, Cherokee, Coffey, Crawford, Neosho, and Woodson counties in Kansas and Barton and Jasper counties in Missouri.

# 2.3.2.1 Population

Like urban areas, population densities, and housing units, understanding populations and trends within the counties and cities within the Study Area can help to identify areas of constraint and to develop

alternative routes that minimize impacts to the extent practicable. Table 2-4 displays the 2010 and 2017 populations and percent change in population for the state, counties and the largest cities or towns within the Study Area (U.S. Census Bureau, 2010; U.S. Census Bureau, 2017).

Both state populations increased between 2010 and 2017 by 2.1 percent. Jasper County (MO) was the only county to also increase in population during this same period, at only a slightly greater percentage than either state. All other Kansas and Missouri counties in the Study Area decreased in population during this same period, some by as much as 6 to 7 percent. Among the cities or towns within the Study Area, Pittsburg, Burlington, Arma, and Cherokee increased in population and Fort Scott, Iola, Frontenac, Girard, Humboldt, and Yates Center decreased in population.

Table 2-4: 2010 and 2017 Populations and Trends for the States, Counties, and Largest Cities/Towns Within the Study Area

| State / County / City | 2010 Population | 2017 Population | Percent Change |
|-----------------------|-----------------|-----------------|----------------|
| KANSAS                | 2,853,118       | 2,913,123       | 2.1%           |
| Allen County          | 13,371          | 12,519          | -6.4%          |
| Anderson County       | 8,102           | 7,833           | -3.3%          |
| Bourbon County        | 15,173          | 14,754          | -2.8%          |
| Cherokee County       | 21,603          | 20,115          | -6.9%          |
| Coffey County         | 8,601           | 8,224           | -4.4%          |
| Crawford County       | 39,134          | 39,034          | -0.3%          |
| Neosho County         | 16,512          | 16,015          | -3.0%          |
| Woodson County        | 3,309           | 3,147           | -4.9%          |
| MISSOURI              | 5,988,927       | 6,113,532       | 2.1%           |
| Barton County         | 12,402          | 11,850          | -4.5%          |
| Jasper County         | 117,404         | 120,217         | 2.4%           |
| CITIES                | -               | -               | -              |
| Pittsburg             | 20,233          | 20,290          | 0.3%           |
| Fort Scott            | 8,087           | 7,823           | -3.3%          |
| Iola                  | 5,704           | 5,414           | -5.1%          |
| Frontenac             | 3,437           | 3,402           | -1.0%          |
| Girard                | 2,789           | 2,751           | -1.4%          |
| Burlington            | 2,674           | 2,745           | 2.7%           |
| Humboldt              | 1,953           | 1,883           | -3.6%          |
| Arma                  | 1,481           | 1,531           | 3.4%           |
| Yates Center          | 1,417           | 1,340           | -5.4%          |

| State / County / City | 2010 Population | 2017 Population | Percent Change |  |  |  |
|-----------------------|-----------------|-----------------|----------------|--|--|--|
| Cherokee              | 714             | 743             | 4.1%           |  |  |  |

U.S. Census Bureau, 2010; U.S. Census Bureau, 2017

### 2.3.2.2 Employment and Income

According to the U.S. Census Bureau's 2017 American Community Survey, Kansas' labor force was 50.8 percent of the population (individuals 16 years of age and over) and Missouri's labor force was 49.9 percent of its population. Anderson County (KS) had a greater labor force percentage (52.9 percent) than both states. The rest of the counties (Allen County [KS; 50.3 percent], Barton County [MO; 43.2 percent], Bourbon County [KS; 46.5 percent], Cherokee County [KS; 50.5 percent], Coffey County [KS; 50.1 percent], Crawford County [KS; 49 percent], Jasper County [MO; 47.2 percent], Neosho County [KS; 37.8 percent], and Woodson County [KS; 50.5 percent]) all had a lower labor force percentage than their respective states (U.S. Census Bureau, 2017).

The same survey recorded an unemployment rate for Kansas of 3.6 percent and for Missouri of 3.8 percent. All Kansas counties had higher unemployment rates than the state (4.9 percent in Allen County; 4.0 percent in Anderson County; 4.5 percent in Bourbon County; 3.9 percent in Cherokee County; 5.3 percent in Coffey County; 4.2 percent in Crawford County; 5.2 percent in Neosho County; and 4.5 percent in Woodson County). In Missouri, Barton County had a higher unemployment rate than the state at 4.2 percent, but Jasper County had a lower rate at 3.3 percent (U.S. Census Bureau, 2017).

The two most predominant industries within the counties in the Study Area in 2010 were manufacturing and educational services / health care / and social assistance (U.S. Census Bureau, 2010).

The median household income for Kansas was \$56,382 per year in 2017 and \$53,506 in Missouri. Coffey County (\$57,021) had a median household income higher than either statewide median, but all the other counties in the Study Area had a lower median household income than either state (Woodson County [KS; \$38,840], Neosho County [KS; \$44,073], Jasper County [MO; \$46,611], Crawford County [KS; \$39,461], Cherokee County [KS; \$42,469], Bourbon County [KS; \$41,847], Barton County [MO; \$41,796], Anderson County [KS; \$46,595], and Allen County [KS; \$42,957]). Woodson County had the lowest median income (U.S. Census Bureau, 2017).

#### 2.3.3 Cultural Resources

Burns & McDonnell archaeologists performed a records search in September 2020 and again in January 2022, via the Kansas and Missouri State Historic Preservation Office's (SHPO) online databases. There are 45 structures, sites, or districts within the Study Area that are listed on the National Register of

Historic Places (NRHP) or that have been recommended as eligible for the NRHP. They are located primarily in the cities and towns in the Study Area, including Fort Scott, Pittsburg, Arma, Girard, and Iola, which are typically avoided when routing large transmission lines, whenever possible. Five of these sites are historic districts: Fort Scott Historic Site, Fort Scott Downtown Historic District, Fourth and Broadway Historic District and Whitesitt-Shirk Historic District in Pittsburg, and Yates Center Courthouse Square. NRHP sites include houses, jails, post offices, courthouses, churches, bridges, and rail depots, among others. There are 663 recorded archeological sites scattered throughout the Study Area but they are in relatively low concentrations so that impacts to these recorded archeological sites are likely to be minimal during line siting and pole spotting. There may be other cultural resources located within the Study Area but that are undiscovered, as much of the area has not likely been surveyed.

### 2.3.4 Visual Character

The visual character of an area is a function of the terrain, land cover, and land use. Throughout the Study Area, the land cover is largely a mixture of pasture and cropland, with some woodlands along streams and wetlands. The terrain within the Study Area is mostly flat, with some slopes around streams and creeks and around reclaimed mine areas. The lack of large, wooded areas and diverse terrain mean that views of linear aboveground features in the Study Area, such as an electric transmission line, could extend for miles.

The number of people potentially within view of the new line, depending on the route selected, is relatively low due to mostly scattered rural residential development across most of the Study Area. Highways, local roads, and railroads pass through the Study Area, as described in Section 2.3.1.4, as do transmission lines and distribution lines, as described in Section 2.3.1.5. These features add to the manmade elements within the Study Area and help to reduce the overall visual intrusion that could be caused by the proposed Project.

### 3.0 ANALYSIS OF ALTERNATIVES

NEET Southwest retained Burns & McDonnell to assist in the route identification, selection, and documentation for the Project. This section presents the rationale behind the route identification and evaluation process used for the Project. The evaluation ultimately resulted in the selection of a preferred route.

### 3.1 Overview of the Routing Process

The following is an overview of the steps involved in the identification of the route alternatives and the selection of a preferred route for the Project.

Potential routes were identified that met the routing objective: to identify economically feasible routes connecting the proposed Project endpoints that avoided or minimized impacts to both community and natural resources.

Parelleling opportunities with existing transmission lines, roads, and railroads were investigated during the initial review of the Study Area, as well as during the identification of the preliminary routes. The study team then quantified the engineering, social, and environmental resources that would be impacted by each feasible route. Quantitative data were used to evaluate the alternatives and to recommend a preferred route for the proposed transmission line. Activities leading to the selection of the preferred route are described in more detail in the following sections.

#### 3.2 Identification of Route Alternatives

The objective of the routing analysis was to identify an economically feasible route that offered the most benefits in terms of providing reliable electric service, but that also limited adverse impacts to the social and natural environment within the Study Area. This effort included three primary components: review of USGS topographic maps and recent aerial photography, review of available GIS data regarding potential constraints within the Study Area, and a field review of the alternative routes conducted on October 12 - 15, 2020 along public roads.

The NEET Southwest team initially identified a set of routes using their collected data and routing-based programs. The Burns & McDonnell team then gathered additional data within the Study Area, completed a review of the NEET Southwest routes, and provided recommendations for adjustments and other potential routes to evaluate. The primary goals regarding routing were to:

- Minimize overall impacts by paralleling existing transmission line ROW, where possible;
- Maximize the distance of the line from existing residences and other development;
- Avoid crossing state and federal managed and owned lands;
- Minimize the overall length of the route and minimize angles to help keep the cost reasonable and to minimize land use impacts;
- Minimize crossing contiguous woodland tracts within the gray bat critical habitat area;
- Minimize crossings of large concentrations of wetlands and parallel to streams;
- Minimize impacts to airports and runways.

Adjustments were made to the NEET Southwest routes to accomplish the above objectives and to address constraints and newly identified structures observed during the field review. For example, one portion of a preliminary route would have crossed a golf course, so an adjustment was made to avoid the golf course. Additional adjustments were made to minimize the length of routes through restrictive FAA obstruction zones around the Atkinson Municipal Airport near Pittsburg, to avoid paralleling streams, to avoid having known oil / gas wells and tanks in the ROW, and to minimize crossing possible gray bat habitat (*i.e.*, large wooded tracts) in both Kansas and Missouri. An additional route was added for evaluation as an option that would maximize paralleling along roads and property lines. Additional connector segments between routes were added to provide flexibility in using various combinations of routes to reach the endpoints.

The final set of route alternatives consist of individual segments that can be combined in different arrangements to form a continuous path between the Project endpoints. Each segment begins and ends at intersections with other segments. The set of route alternatives for this Project consisted of 53 individual segments. The alternatives were identified to minimize, to the extent practicable, impacts to environmentally sensitive features and residential areas while providing a direct route alignment. Ultimately, 729 distinct routes were developed using forward-progressing combinations of the 53 segments. Figure 3-1 shows the route alternatives overlaid on an aerial photography background of the Study Area.

## 3.3 Identification of the Preferred Route

The analysis of alternatives was based on social, environmental, and engineering criteria. Data for each criterion were quantified for each segment and summed for each route. Following is a description of the process that resulted in the selection of a preferred route.

MEDONNELL

Figure 3-1: Aerial Map of Route Alternatives

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### 3.3.1 Evaluation Criteria

The evaluation of the alternative routes included a systematic comparison of the alternatives based on the social, environmental, and engineering criteria that represent potential adverse effects on resources in the Study Area. Table 3-1 shows the routing criteria measured, though not all of these criteria were necessarily used in the route comparison analysis due to lack of variation among routes.

The primary source of the data used in this analysis was aerial imagery from previous years, including imagery from 2019, supplemented with digital data, such as roads, parcels, protected lands, and wetlands, acquired from various federal and state agencies and sources, and a field review of routes in October of 2020.

To best evaluate potential impacts, the amount of new ROW was calculated as the acreage of new land that would be needed to construct the line. For this Project, a new ROW width of 150 feet was used. New ROW was measured for each route alternative and was used to calculate different land use impacts. It was not included in the evaluation process as it would be like the total length measurement in reflecting potential overall impacts of a route alternative.

Table 3-1: Routing Criteria

| Factor   | Туре        |
|--|-------------|
| Total Length (feet, miles)                         | Engineering |
| Angles Over 30 Degrees (count)                     | Engineering |
| Highway Crossings (count)                          | Engineering |
| Other Roadway Crossings (count)                    | Engineering |
| Length Not Along Existing Transmission Line (feet) | Engineering |
| Length Not Along Roads (feet)                      | Engineering |
| Oil / Gas Wells / Tanks in ROW (count)             | Engineering |
| Number of Pipeline Crossings (count)               | Engineering |
| Length through Previously Mined Area (feet)        | Engineering |
| Transmission Line Crossings (count)                | Engineering |
| Total Length in Karst Area (feet)                  | Engineering |
| Residential Proximity Score (score)                | Social      |
| Residences within 150 feet (count)                 |             |
| Residences within 300 feet (count)                 |             |
| Residences within 500 feet (count)                 |             |
| Businesses within 300 feet (count)                 | Social      |
| Public Facilities within 500 feet (count)          | Social      |

| Factor   | Туре          |
|--|---------------|
| Outbuildings within ROW (count)                  | Social        |
| Archeological Sites within ROW (count)           | Social        |
| Parcels Crossed (count)                          | Social        |
| Length Not Along Parcel Boundary (feet)          | Social        |
| Cropland in ROW (acres)                          | Social        |
| Rangeland in ROW (acres)                         | Social        |
| Sensitive Species Score (score)                  | Environmental |
| Woodland within Gray Bat Critical Habitat in RO  | W (acres)     |
| Eastern Spotted Skunk Critical Habitat in ROW (a | cres)         |
| Broadhead Skink Critical Habitat in ROW (acres)  |               |
| Woodland in ROW (acres)                          |               |
| Stream Crossings (count)                         | Environmental |
| Waterbodies in ROW (acres)                       | Environmental |
| Wetlands in ROW (acres)                          | Environmental |
| Floodplain in ROW (acres)                        | Environmental |

# 3.3.1.1 Engineering / Design Criteria

Engineering criteria were considered in the route analysis to account for impacts resulting from length, length along existing transmission lines and roads, heavy angles, road, pipeline, and transmission line crossings, oil / gas wells within the ROW, length through previously mined areas, and length through karst areas.

**Total Length** is a general indicator of the overall presence of the Project. Length is also an indicator of construction costs. The longer the proposed route, the more expensive it would be if all other criteria were equal.

**Angles Over 30 Degrees** were considered because these angles typically require larger structures and more space for construction and guying. Consequently, these structures tend to be more visible and more expensive.

**Highway and Other Roadway Crossings** provides an indicator of potential permitting and / or line crossing issues that may require special designs or additional permits.

**Length Not Along Existing Transmission Line** was measured because following existing transmission lines is generally considered to have less impact than a new ROW. Because it is desirable and less

impacting to parallel a new route along an existing transmission line, potential impacts would be more likely to occur where a route would be built away from the existing line, so length <u>not</u> along existing transmission lines was measured.

Similarly, **Length Not Along Roads** was measured because following roads is preferred where there is little or no adjacent development. In general, following roads is not as preferable as paralleling existing transmission lines because there are fewer above-ground facilities associated with roads that have already affected the visual environment.

Oil / Gas Wells / Tanks in ROW were quantified to help identify the potential for pole spotting or route alignment changes. Well data from the Kansas Data Access and Support Center (DASC) and the MDNR indicating active wells was used, combined with a field review of obvious wells and tanks along the routes. Available data and the field review were not precise enough to completely avoid the risk of having these features in the ROW. Minor route shifts may be necessary to completely avoid impacts to active wells within the ROW following field surveys along the preferred route.

**Number of Pipeline Crossings** was calculated to provide engineers with a rough estimate of where permits and special designs may be needed to avoid impacting large diameter pipelines.

**Length through Previously Mined Area** was calculated using various old USGS maps and data derived from interpretation of topographic and aerial maps. None of these areas are actively mined and are reclaimed. However, these areas could present additional soil or substrate challenges during construction.

**Transmission Line Crossings** provides an indicator of potential line crossing issues that may require special designs or additional considerations like line outages.

**Total Length in Karst Area** was calculated using data provided by Terracon, assessing the potential route alternatives for the risk of the presence of karst features. All routes must cross these areas, but the risk indicator can provide an index for where the risks may be greater due to special design or permitting challenges.

#### 3.3.1.2 Social / Structure Criteria

Social and structure criteria were included in the analysis to account for impacts to the human environment, including individual residences, businesses, and public facilities located close to the routes; outbuildings in the ROW; cultural resources within the ROW; parcels crossed; length not along parcel boundaries; and cropland and rangeland crossed.

Proximity to residences was considered for the route analysis. Residences within 150 feet, between 151-300 feet, and between 301-500 feet from the centerline were identified within the Study Area using aerial photography, Microsoft Building Footprint data, and field reconnaissance. The impact to these structures varied depending on the distance from the route. The three criteria for the distance to residences were converted to a

**Residential Proximity Score** to reflect the public concern that residences located closer to a transmission line would be more affected than those further away. To determine the residential proximity score, the number of residences within 150 feet of the centerline were multiplied by three; the number of residences between 101-300 feet were multiplied by two; and the number of residences between 301-500 feet were multiplied by one. Then, all three results were added together.

**Businesses within 300 feet** were quantified using GIS data documenting the location of businesses. This data was collected during the field review of the routes.

**Public Facilities within 500 Feet** was calculated to quantify the potential impact of the line on areas frequented by numbers of people, including schools, religious facilities, parks, and other areas where people may gather, as identified in ESRI or Geographic Names Information System (GNIS) data and from the field review of the routes.

**Outbuildings within the ROW** were quantified using data collected from the field reconnaissance effort, from a review of aerial imagery, and from Microsoft Building Footprints data. These could indicate locations where landowners may need to be compensated for removal or relocation of the structures, or where there could be asbestos mitigation concerns or the potential for eastern spotted skunk habitat.

Archeological Sites within the ROW were counted using data maintained by the Kansas and Missouri SHPOs. Much of the Study Area has not been surveyed and as a result there is a likelihood that additional sites could be encountered during ground surveys of the proposed route. There were no sites listed or eligible for listing on the NRHP that were crossed by the alternative routes.

**Parcels Crossed by the ROW** were quantified for each route as a relative measure of the overall impact on private property. Routes that cross significantly more parcels tend to cost more as a result of additional landowners from which to acquire easements. Often this factor is correlated with length such that longer routes have more parcels crossed and therefore was not included in the analysis.

**Length Not Along Parcel Boundary** was measured because following existing parcel boundaries is generally considered to have less impact than a new ROW across the center of a parcel. Because it is

desirable and less impacting to locate a new route along a parcel boundary, potential impacts would be more likely to occur where a route would be built away from the parcel boundary, so length <u>not</u> along parcel boundary was measured.

Acres of **Cropland Within the ROW** was calculated as those areas crossed by the proposed new ROW using Kansas' DASC Land Cover Patterns Level IV-2005 data designated as cropland and alfalfa and the NASS data characterized as cropland for Missouri only. Any modeled woodland areas (see 3.3.1.3 below) were removed from the calculation.

Acres of **Rangeland Within the ROW** was determined using data characterized in the digital DASC Land Cover Patterns Level IV -2005 data as Conservation Reserve Program (CRP), warm-season grassland, and cool-season grassland and the NASS data characterized as "alfalfa", "clover/wildflowers ", "fallow/idle cropland ", "grassland/pasture ", "other hay/non-alfalfa", and "sod/grass seed" in Missouri only. Any modeled woodland areas (see 3.3.1.3 below) were removed from the calculation.

Crossing rangeland is generally preferable to building a transmission line in wooded areas or areas of cropland as there is generally less impact (i.e. no clearing) to open rangeland or pasture.

#### 3.3.1.3 Environmental Criteria

Environmental evaluation criteria included sensitive species habitat impacts; woodland in the ROW; streams and waterbodies crossed or in the ROW; wetlands in the ROW; and floodplains in the ROW.

A Sensitive Species Score was calculated for the routes to evaluate the potential of each route to impact potential habitat for the gray bat, the eastern spotted skunk, and the broadhead skink. Woodland within Gray Bat Critical Habitat in ROW was quantified as all wooded areas within the critical habitat zone as designated by KDWP in Crawford and Cherokee counties. Eastern Spotted Skunk Critical Habitat in ROW was quantified as all woodland and upland prairie (using the DASC Land Cover Patterns Level IV -2005 data designated as CRP, warm-season grassland, and cool-season grassland) within Anderson and Woodson counties as defined by KDWP. Broadhead Skink Critical Habitat in ROW was quantified as all woodland within Bourbon and Crawford counties, as defined by KDWP. Woodland in ROW was determined using an imagery analysis model that analyzed 2019 National Agriculture Imagery Program (NAIP) Natural Color Infrared imagery to determine likely signatures of woody vegetation. Woodland Within the ROW represented the forested areas within the ROW that would be cleared along each route and which could be considered sensitive bat habitat. Because NEET Southwest expects that addressing and mitigating gray bat impacts are likely to be more challenging than mitigating impacts to the skink, skunk, and species habitat in other wooded areas, the score was calculated by multiplying the Woodland

within Gray Bat Critical Habitat in ROW by two and then adding the Eastern Spotted Skunk Critical Habitat in ROW, Broadhead Skink Habitat in ROW and total woodland in ROW.

**Streams Crossed** was measured to capture the potential impact of crossing both perennial and intermittent streams based on National Hydrology Dataset (NHD) data. Additional permitting may be required at stream crossings for the transmission line and access roads, if needed. In addition to streams, acres of **Waterbodies Within the ROW** was also measured using NHD data to identify and evaluate waterbodies other than the NHD streams.

Wetlands in ROW was calculated using National Wetland Inventory (NWI) data produced by the USFWS, and the Kansas Applied Remote Sensing Program's Potential Wetland Areas data available on DASC. Wetlands within the ROW represent areas where additional permitting would be necessary as well as where there could be constraints on pole locations.

**Floodplain in ROW** was calculated using FEMA floodplain data. Additional permits and design considerations may be required when siting poles or access roads through floodplains. To reduce permitting requirements, efforts will be made to spot poles and access roads in a way that minimizes floodplain impacts.

# 3.3.2 Weighting the Routing Criteria

The categories described above were considered to represent the potential impact of construction and operation of the new transmission line. The Project team then assigned weights to some of the criteria based on their experience with similar transmission line projects across the country. A weight scale from 1 to 10 was used for this process, with 1 representing the lowest impact and 10 representing the highest impact during the evaluation. Some factors in Table 3-1 were determined to not have much variability between routes; as such, they would not help discriminate between the various routes, which was the intent of this analysis. Therefore, those criteria were assigned a weight of zero and are not included in Table 3-2. The weights associated with each routing criterion are presented in Table 3-2.

#### 3.3.3 Evaluation Process

Within the proposed Study Area, 53 route segments were developed and evaluated to select a final route(s) from the existing Wolf Creek Substation to the existing Blackberry Substation. The route network developed from the 53 segments can be combined to form 729 route alternatives (see Figure 3-1). The route components and route data for all route alternatives are provided in Appendix A.

Burns & McDonnell quantified the route criteria for the potential route alternatives. No single route had the lowest value for all of the measured criteria. While a particular route may have the lowest impact for one criterion, it may have much higher impacts for another. The routing criteria included units such as combined score, length, acres, and numbers of selected resources. These units are not directly comparable but need to be considered as a whole in the evaluation process. The level of complexity resulting from the number of routes, combined with numerous criteria and differences in measurement units made it difficult to conduct a route-by-route comparison to identify a route that would minimize potential overall impacts to the area. Consequently, Burns & McDonnell used a statistical Z-score analysis as a tool to rank and screen the route alternatives and to identify a smaller, more manageable number of routes warranting further investigation and comparison for the selection of a final route alignment.

Table 3-2: Routing Criteria Weights

| Factor   | Weight |
|--|--------|
| Residential Proximity Score (score)                | 10     |
| Sensitive Species Score (score)                    | 9      |
| Length Not Along Existing Transmission Line (feet) | 8      |
| Total Length (feet)                                | 6      |
| Wetlands in ROW (acres)                            | 5      |
| Length through Previously Mined Areas (feet)       | 4      |
| Angles Over 30 Degrees (count)                     | 4      |
| Floodplain in ROW (acres)                          | 3      |
| Cropland in ROW (acres)                            | 3      |
| Stream Crossings (count)                           | 3      |
| Archeological Sites within ROW (count)             | 2      |
| Transmission Line Crossings (count)                | 2      |
| Total Length through Karst Area (feet)             | 1      |
| Length Not Along Parcel Boundary (feet)            | 1      |
| Public Facilities within 500 feet (count)          | 1      |

The impacts associated with each criterion for each potential route were determined, and a Z-score was then calculated for each criterion for each route. A Z-score determines the mean value within a set of data, compares each individual route value to the mean, and transforms the data into comparable values. A degree of difference is calculated for each route by determining how far (number of standard deviations) each route value deviates from the mean value. For example, the total length of all routes would be quantified, and the mean value would be determined for the entire set of routes. The total length for each route would then be compared against the mean value. If a particular route length was equal to the mean

value, then the assigned Z-score would be zero. If the total length was greater than the mean value, then the Z-score for that route would be a positive number. If the total length was less than the mean value, the Z-score would be a negative value for that route. The more the individual route value exceeded the mean, the higher the positive number would be. Conversely, the more the route value was below the mean, the more negative the Z-score. As a result, the more negative a number, the less impacting that route would be for that criterion.

After all Z-scores were calculated, Burns & McDonnell applied a weight factor to each criterion to give greater consideration in the evaluation process to those criteria that are considered to have a greater impact on the overall Project evaluation (see Table 3-2). If weight factors were not applied, all criteria would be assumed to have the same level of impact on the evaluation process. Although all criteria need to be considered during the routing process because they have the capacity to influence potential impacts, design, and cost, certain criteria have the capacity to influence the Project in a greater manner. Therefore, all criteria are not equal in terms of importance to the Project, and thus are weighted accordingly. For example, the number of streams crossed is an important criterion to be considered because of the potential impact to aquatic systems and habitat, as well as design factors. However, design issues are relatively easy to address when crossing streams and measures can be taken to mitigate impacts to aquatic systems along a waterway. Therefore, this criterion received a lower weight. On the other hand, the number of residences located near the route was given a higher weight during evaluation because of concerns often expressed by homeowners and landowners to new transmission lines.

Weights were assigned to each criterion and were multiplied by the raw Z-score calculated for each criterion for each potential route. By weighting the Z-scores, those criteria determined to warrant greater consideration during the evaluation process were weighted higher and thus became more significant contributors to the overall analysis and screening of the potential routes. The range of weights (1-10) was determined by the number of criteria, the relative importance of each criteria in relation to the others, and the need to differentiate between the alternative routes.

After applying weights to each of the calculated Z-scores for each criterion, the resulting weighted Z-scores for each criterion were summed for all alternative routes to give a total weighted Z-score for each route. Both positive and negative Z-scores were included in the analysis to determine the total weighted Z-score. As with individual criterion Z-scores, a positive total weighted Z-score for a particular route would suggest that the route would have greater-than-average impacts as compared to all routes. A negative Z-score would indicate routes having less-than-average impacts as compared to the other routes.

The Z-score analysis allowed all routes to be screened to simplify the identification of the routes with lower overall impacts.

Z-scores only consider quantified route evaluation criteria. Therefore, Z-scores do not necessarily reflect all actual impacts but provide a guide to better assess and compare overall potential impacts associated with all routes. This methodology is used to organize, manage, and screen the extensive route data to streamline the analysis to a manageable number of routes that can be further evaluated before a final route recommendation is made. Having determined total weighted Z-scores for all route alternatives, Burns & McDonnell arranged the routes by their total weighted Z-scores. Routes were listed in ascending order, beginning with routes having the lowest Z-scores (i.e., least impacting) and continuing to the routes having the highest Z-scores (i.e., most impacting) (Appendix B).

The resulting total weighted Z-scores for the 729 route alternatives ranged from a low of -52.83 to a high of 73.52. In general, the routes that stair-stepped along roads and property boundaries using Segment 8, Segment 18, and Segment 29 (especially from Segments 16 and 24) scored the poorest of all the alternative routes, largely because they were longer and had more angles, as well as having other greater impacts than other routes. Routes that used Segment 16 along the western portion of the Study Area and then turned along Segments 21, 29, or 34 to go back east, also scored poorly due to extra length and greater overall impacts. None of the routes using these segment combinations were carried forward for further evaluation.

Based on the number of possible route combinations for the Project, it was not feasible to do a route-by-route comparison of all possible routes. Therefore, to streamline the analysis, approximately five percent of the lowest-scoring (least-impacting) routes in the Z-score analysis were reviewed for additional evaluation and comparison. This lowest-scoring five percent included 36 route alternatives, all of which scored well compared to the remaining route alternatives and would be feasible to construct with fewer impacts compared to the other routes. Table 3-3 and Table 3-4 (located at the end of this chapter) include the route data and weighted scores for these top five percent of routes evaluated. A more detailed description of the selection of the final routes is discussed in the following section.

### 3.3.4 Selection of the Preferred Route

The evaluation included a review of the overall rankings of all alternative routes with a focus on the top five percent of the routes evaluated as described above. After each route received a weighted score based on measured criteria for each route alternative, the Project team considered the merits of the remaining 36 route alternatives to determine a set of final routes for further consideration and analysis.

When considering the 36 route alternatives retained for further evaluation, both quantitative and qualitative data was used to differentiate the routes and to provide a rationale for the selection of final route alignments. Environmental, social, and engineering data were evaluated.

In the route evaluation, there were some trends in the way the routes scored. Beginning at the northwest corner at the Wolf Creek Substation, the segment combination of Segments 2 and 9 (eastern option) ranked better than Segments 3, 4, and 7, followed by routes using Segments 3, 5, and 7. The differences between these combinations are relatively minor, but generally the poorer scoring options are longer, have more woodland impacts, some more karst impacts, more angles, and cross more streams and transmission lines. Continuing south along the route alternatives, routes using Segment 17 scored generally better than routes using Segment 16 due primarily to more length along existing transmission lines and a lower impact to sensitive species habitat (less woodland clearing). In the southern portion of the Study Area, routes using Segment 31 scored better than routes using Segments 32 and 35, Segment 33, Segments 32 and 34, and Segment 29. The latter two combinations did not even score well enough to rank in the top five percent of routes. Routes using Segment 31 scored better than the other combinations primarily in length, length along existing transmission lines, transmission line crossings, sensitive species habitat impacts, and floodplain crossed.

Of the top five percent of routes, the top five routes were Routes 65, 68, 76, 75, and 57. The scores of these routes did not differ substantially from the others, so any of these routes could be selected as the preferred route and the Project would still have relatively minor overall impacts. Each of these five routes uses Segments 1, 2, 9, 12, 13, 17, and 20 for the northern half of the route. In fact, 80 percent of the top 10 routes use this route combination using Segment 24 or a minor variation using Segment 23, so it seems clear this route is less impacting for this portion of the Project. There is no specific set of features that cause these routes to score somewhat better than the other route options in the northern half of the Project; it is just a combination of impacts that caused a slightly lower set of scores.

For the southern half of the Project, after Segments 23/24, the top five routes continue along Segments 30 and 31 to extend north and east of Pittsburg, or turn south on either Segments 30, 32, and 35 or on Segments 28 and 33 to extend south and west of Pittsburg. In the analysis, the top two routes, Routes 65 and 68, extend north and east of Pittsburg. The next three poorer-scoring routes (Routes 76, 75, and 57) head south around Pittsburg. Routes 65 and 68 are shorter than Routes 76, 75, and 57, parallel existing transmission lines for longer lengths, have lower sensitive species impact scores (have less woodland clearing and skink critical habitat impacts), and cross less cropland and floodplain. The south-Pittsburg routes (Routes 76, 75, and 57) have lower residential impacts and cross less previously mined areas and

fewer streams, but these were not enough to outweigh the greater impacts in the other quantified factors. In addition, Routes 76, 75, and 57 all use Segment 43 that parallels nearly 10 miles of the Blackberry to Neosho 345-kV transmission line. Having two high voltage lines in such close proximity reduces system reliability (if a weather event were to remove both lines from service at the same time, overloading of the electrical system in the region could occur). This reduced reliability makes these routes less preferable than Routes 65 and 68 that extend north of Pittsburg and parallel lower voltage lines. For these reasons, the analysis then became focused on a comparison between Route 65 and Route 68.

Route 65 differs from Route 68 in how it extends around the north side of Pittsburg. Route 65 uses Segments 36, 37, 38A, 45, 46, and 38E northeast of the towns of Arma and Franklin. Route 68 is west of Route 65 and uses Segments 40, 41A, and 41B south of Arma and Franklin. Route 65 is a bit longer than Route 68, but has fewer existing transmission line crossings, a lower sensitive species score due to less woodland clearing in the gray bat critical habitat area, less broadhead skink impacts, a lower residential impact, and lower floodplain impacts. Route 68 is shorter, has fewer heavy angles, parallels existing transmission lines more, and crosses fewer streams and wetlands. Route 68, however, extends through areas where the line could be considered an obstruction to the Atkinson Municipal Airport by the FAA. Evaluations of the Part 77 and TERPS (Terminal Instrument Procedures) surfaces associated with the airport indicate that heights may be limited, and special designs could be required in some locations along Route 68. Because Route 65 is further east and further from the airport, it would not be as limited (or limited at all) in height and design as Route 68. Preliminary structures have been filed with the FAA to validate the analysis completed for the airport impacts. To avoid the costs and challenges associated with potential impacts to the airport, and because Route 65 would impact gray bat critical habitat less than Route 68, Route 65 was selected as the preferred route to present to the public.

Route 65 is comprised of Segments 1, 2, 9, 12, 13, 17, 20, 24, 27, 30, 31, 36, 37, 38A, 45, 46, 38E, 42, and 44. This route exits the Wolf Creek Substation to the east for approximately 3 miles and then turns southeast. It continues diagonally to the southeast for approximately 41 miles where it then continues to the southeast for approximately 27 miles parallel to the existing Marmaton to Litchfield 161-kV transmission line. Route 65 then turns east for about 7 miles to avoid the FAA obstruction areas around the Atkinson Municipal Airport before then turning generally south/southeast for another 5.5 miles to then parallel the existing Marmaton to Litchfield 69-kV transmission heading south for approximately 2 miles. The route then turns to the southeast for approximately 1.5 miles, extending into Missouri, where the route then turns south and southeast for about 4 miles. At this point, Route 65 parallels the existing Litchfield to Asbury 161-kV transmission line south for approximately 3 miles before a slight turn to the southwest for approximately 2.5 miles to connect with the Blackberry Substation. Figure 3-2 shows the

preferred route alignment. Additional review and adjustments were made to Route 65 following its selection based on both engineering and environmental concerns. For ease of discussion in later chapters, Route 65 will be referred to as the Proposed Route. Adjustments and possible impacts along the route are described in Chapter 4.0.

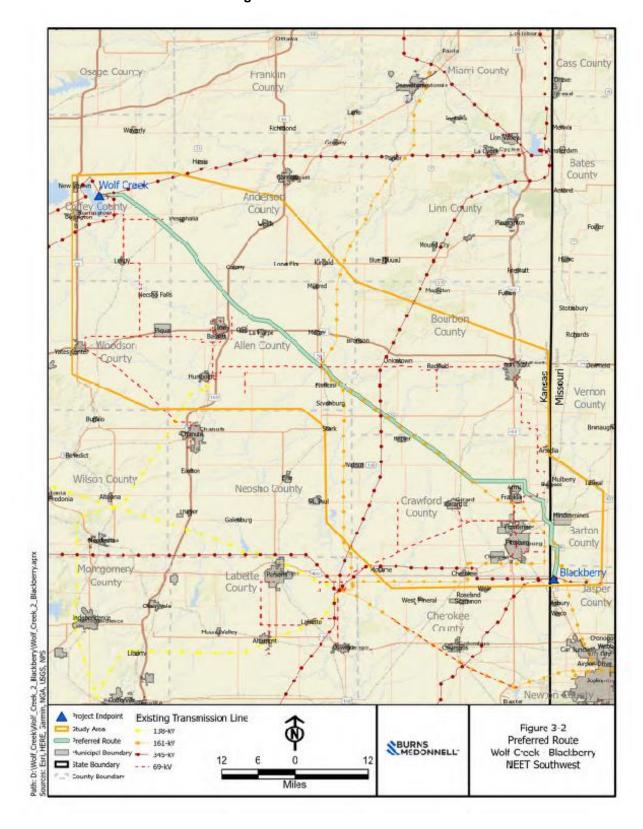


Figure 3-2: Preferred Route

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Table 3-3: Route Data for the Top Routes Evaluated

|       |   | 1                    |                                      |  |  |   |                                      |   |   |   |   |                            | 1                                     |                                |                         |                                 |
|-------|---|----------------------|--------------------------------------|--|--|---|--------------------------------------|---|---|---|---|----------------------------|---------------------------------------|--------------------------------|-------------------------|---------------------------------|
| Route | Segments  | Total Length<br>(mi) | Angles Over 30<br>Degrees<br>(count) | Length Not Along<br>Existing<br>Transmission<br>Line<br>(feet) | Length Through<br>Previously Mined<br>Area<br>(feet) | Transmission<br>Line Crossings<br>(count) | Total Length<br>Karst Area<br>(feet) | Residential<br>Proximity Score<br>(score) | Public Facilities<br>within 500 feet<br>(count) | Archaeological<br>Sites within ROW<br>(count) | Length Not Along<br>Parcel Boundary<br>(feet) | Cropland in ROW<br>(acres) | Sensitive Species<br>Score<br>(score) | Stream<br>Crossings<br>(count) | Wetlands in ROW (acres) | Floodplain in<br>ROW<br>(acres) |
| 65    | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44         | 94.3                 | 17                                   | 366,820  | 53,860   | 10  | 307,310                              | 58  | 0   | 0   | 433,960                                       | 651.2                      | 314.5                                 | 168                            | 39.2                    | 200.4                           |
| 68    | 1,2,9,12,13,17,20,24,27,30,31,40,41A,41B,42,44                  | 92.5                 | 14                                   | 342,230  | 54,060   | 12  | 294,100                              | 63  | 0   | 0   | 447,830                                       | 675.7                      | 389.5                                 | 162                            | 35.1                    | 219.5                           |
| 75    | 1,2,9,12,13,17,20,24,27,30,32,35,43,44                          | 94.7                 | 15                                   | 456,800  | 20,220   | 13  | 311,020                              | 48  | 1   | 1   | 437,520                                       | 712.9                      | 411.7                                 | 139                            | 32.2                    | 249.7                           |
| 76    | 1,2,9,12,13,17,20,24,28,33,43,44                                | 96.0                 | 16                                   | 421,840  | 20,220   | 13  | 299,650                              | 38  | 0   | 1   | 462,170                                       | 688.2                      | 433.4                                 | 157                            | 37.7                    | 235.0                           |
| 66    | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44         | 94.9                 | 17                                   | 369,780  | 54,020   | 12  | 307,310                              | 58  | 0   | 0   | 433,690                                       | 657.0                      | 336.1                                 | 163                            | 39.7                    | 249.7                           |
| 57    | 1,2,9,12,13,17,20,23,26,28,33,43,44                             | 96.5                 | 17                                   | 422,970  | 20,220   | 13  | 302,460                              | 38  | 0   | 1   | 460,780                                       | 690.4                      | 435.9                                 | 157                            | 38                      | 193.7                           |
| 372   | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44       | 94.8                 | 17                                   | 363,140  | 53,860   | 10  | 306,110                              | 54  | 0   | 1   | 444,070                                       | 672.5                      | 289.7                                 | 171                            | 43.5                    | 206.6                           |
| 46    | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44      | 94.8                 | 20                                   | 367,950  | 53,860   | 10  | 310,120                              | 58  | 0   | 0   | 432,570                                       | 653.4                      | 317.1                                 | 168                            | 39.5                    | 225.8                           |
| 375   | 1,3,4,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44                | 92.9                 | 14                                   | 338,550  | 54,060   | 12  | 292,910                              | 59  | 0   | 1   | 457,930                                       | 697.0                      | 364.6                                 | 165                            | 39.4                    | 200.4                           |
| 49    | 1,2,9,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44               | 93.0                 | 17                                   | 343,360  | 54,060   | 12  | 296,910                              | 63  | 0   | 0   | 446,440                                       | 677.9                      | 392.1                                 | 162                            | 35.4                    | 219.5                           |
| 382   | 1,3,4,7,11,15,17,20,24,27,30,32,35,43,44                        | 95.2                 | 15                                   | 453,120  | 20,220   | 13  | 309,820                              | 44  | 1   | 2   | 447,630                                       | 734.2                      | 386.8                                 | 142                            | 36.5                    | 255.9                           |
| 56    | 1,2,9,12,13,17,20,23,26,27,30,32,35,43,44                       | 95.2                 | 18                                   | 457,930  | 20,220   | 13  | 313,830                              | 48  | 1   | 1   | 436,130                                       | 715.1                      | 414.3                                 | 139                            | 32.5                    | 257.7                           |
| 383   | 1,3,4,7,11,15,17,20,24,28,33,43,44                              | 96.5                 | 16                                   | 418,160  | 20,220   | 13  | 298,450                              | 34  | 0   | 2   | 472,280                                       | 709.5                      | 408.5                                 | 160                            | 42                      | 241.2                           |
| 115   | 1,2,9,12,14,16,22,33,43,44                                      | 94.2                 | 16                                   | 485,780  | 20,220   | 11  | 309,520                              | 39  | 0   | 1   | 437,840                                       | 674.5                      | 457.8                                 | 146                            | 36.9                    | 235.0                           |
| 276   | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44    | 93.8                 | 15                                   | 357,720  | 53,860   | 10  | 300,970                              | 60  | 0   | 1   | 441,950                                       | 647.4                      | 294.2                                 | 172                            | 45.9                    | 265.4                           |
| 422   | 1,3,4,7,11,16,22,33,43,44                                       | 94.2                 | 15                                   | 479,840  | 20,220   | 11  | 306,050                              | 34  | 0   | 2   | 449,390                                       | 696.8                      | 430.7                                 | 148                            | 41.0                    | 207.8                           |
| 279   | 1,3,4,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44             | 91.9                 | 12                                   | 333,130  | 54,060   | 12  | 287,760                              | 65  | 0   | 1   | 455,820                                       | 671.9                      | 369.1                                 | 166                            | 41.9                    | 226.9                           |
| 286   | 1,3,4,7,10,12,13,17,20,24,27,30,32,35,43,44                     | 94.1                 | 13                                   | 447,700  | 20,220   | 13  | 304,680                              | 50  | 1   | 2   | 445,510                                       | 709.1                      | 391.3                                 | 143                            | 39.0                    | 257.1                           |
| 373   | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44       | 95.4                 | 17                                   | 366,100  | 54,020   | 12  | 306,110                              | 54  | 0   | 1   | 443,790                                       | 678.4                      | 311.2                                 | 166                            | 44.0                    | 255.9                           |
| 47    | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44      | 95.4                 | 20                                   | 370,910  | 54,020   | 12  | 310,120                              | 58  | 0   | 0   | 432,300                                       | 659.3                      | 338.7                                 | 163                            | 40.0                    | 199.9                           |
| 287   | 1,3,4,7,10,12,13,17,20,24,28,33,43,44                           | 95.4                 | 14                                   | 412,740  | 20,220   | 13  | 293,310                              | 40  | 0   | 2   | 470,160                                       | 684.4                      | 413.0                                 | 161                            | 44.5                    | 242.4                           |
| 364   | 1,3,4,7,11,15,17,20,23,26,28,33,43,44                           | 97.0                 | 17                                   | 419,290  | 20,220   | 13  | 301,260                              | 34  | 0   | 2   | 470,890                                       | 711.7                      | 411.0                                 | 160                            | 42.3                    | 193.7                           |
| 353   | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44    | 95.3                 | 20                                   | 364,270  | 53,860   | 10  | 308,920                              | 54  | 0   | 1   | 442,680                                       | 674.7                      | 292.2                                 | 171                            | 43.8                    | 206.6                           |
| 679   | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44       | 97.3                 | 22                                   | 359,080  | 53,860   | 11  | 317,060                              | 51  | 1   | 0   | 427,930                                       | 657.3                      | 317.9                                 | 173                            | 41.3                    | 225.8                           |
| 356   | 1,3,4,7,11,15,17,20,23,26,27,30,31,40,41A,41B,42,44             | 93.5                 | 17                                   | 339,690  | 54,060   | 12  | 295,720                              | 59  | 0   | 1   | 456,540                                       | 699.2                      | 367.2                                 | 165                            | 39.7                    | 211.1                           |
| 682   | 1,3,5,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44                | 95.4                 | 19                                   | 334,490  | 54,060   | 13  | 303,850                              | 56  | 1   | 0   | 441,800                                       | 681.8                      | 392.9                                 | 167                            | 37.3                    | 230.2                           |
| 277   | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44    | 94.3                 | 15                                   | 360,680  | 54,020   | 12  | 300,970                              | 60  | 0   | 1   | 441,670                                       | 653.2                      | 315.7                                 | 167                            | 46.5                    | 257.1                           |
| 363   | 1,3,4,7,11,15,17,20,23,26,27,30,32,35,43,44                     | 95.7                 | 18                                   | 454,250  | 20,220   | 13  | 312,630                              | 44  | 1   | 2   | 446,240                                       | 736.4                      | 389.4                                 | 142                            | 36.8                    | 201.1                           |
| 268   | 1,3,4,7,10,12,13,17,20,23,26,28,33,43,44                        | 96.0                 | 15                                   | 413,870  | 20,220   | 13  | 296,120                              | 40  | 0   | 2   | 468,770                                       | 686.6                      | 415.5                                 | 161                            | 44.8                    | 241.2                           |
| 690   | 1,3,5,7,11,15,17,20,24,28,33,43,44                              | 99.0                 | 21                                   | 414,100  | 20,220   | 14  | 309,400                              | 31  | 1   | 1   | 456,140                                       | 694.3                      | 436.8                                 | 162                            | 39.9                    | 260.3                           |
| 257   | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44 | 94.3                 | 18                                   | 358,850  | 53,860   | 10  | 303,780                              | 60  | 0   | 1   | 440,560                                       | 649.6                      | 296.7                                 | 172                            | 46.2                    | 207.8                           |
| 689   | 1,3,5,7,11,15,17,20,24,27,30,32,35,43,44                        | 97.6                 | 20                                   | 449,050  | 20,220   | 14  | 320,770                              | 41  | 2   | 1   | 431,490                                       | 719.0                      | 415.1                                 | 144                            | 34.4                    | 245.7                           |
| 583   | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44    | 96.3                 | 20                                   | 353,660  | 53,860   | 11  | 311,910                              | 57  | 1   | 0   | 425,810                                       | 632.1                      | 322.4                                 | 174                            | 43.8                    | 226.9                           |
| 260   | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44          | 92.4                 | 15                                   | 334,260  | 54,060   | 12  | 290,570                              | 65  | 0   | 1   | 454,420                                       | 674.1                      | 371.7                                 | 166                            | 42.2                    | 265.1                           |
| 729   | 1,3,5,7,11,16,22,33,43,44                                       | 96.7                 | 20                                   | 475,780  | 20,220   | 12  | 317,010                              | 31  | 1   | 1   | 433,260                                       | 681.6                      | 458.9                                 | 150                            | 38.9                    | 269.8                           |
| 586   | 1,3,5,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44             | 94.4                 | 17                                   | 329,070  | 54,060   | 13  | 298,710                              | 62  | 1   | 0   | 439,680                                       | 656.7                      | 397.4                                 | 168                            | 39.8                    | 212.2                           |

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Table 3-4: Weighted Scores for the Top Routes Evaluated

|       | Weights   | 6            | 4                         | 8  | 4  | 2                              | 1                          | 10                             | 1                                    | 2                                  | 1                                   | 3               | 9                          | 3                | 5               | 3                    |        |
|-------|---|--------------|---------------------------|--|--|--------------------------------|----------------------------|--------------------------------|--------------------------------------|------------------------------------|-------------------------------------|-----------------|----------------------------|------------------|-----------------|----------------------|--------|
| Route | Segments  | Total Length | Angles Over 30<br>Degrees | Length Not Along<br>Existing<br>Transmission<br>Line | Length Through<br>Previously Mined<br>Area | Transmission<br>Line Crossings | Total Length<br>Karst Area | Residential<br>Proximity Score | Public Facilities<br>within 500 feet | Archaeological<br>Sites within ROW | Length Not Along<br>Parcel Boundary | Cropland in ROW | Sensitive Species<br>Score | Stream Crossings | Wetlands in ROW | Floodplain in<br>ROW | Total  |
| 65    | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44         | -9.31        | -3.98                     | -12.49   | -0.15                                      | -2.82                          | -0.83                      | 0.89                           | -1.22                                | -2.30                              | 1.06                                | -0.42           | -12.45                     | 0.83             | -5.67           | -3.96                | -52.83 |
| 68    | 1,2,9,12,13,17,20,24,27,30,31,40,41A,41B,42,44                  | -11.70       | -7.74                     | -16.24   | -0.09                                      | -0.17                          | -1.85                      | 5.51                           | -1.22                                | -2.30                              | 1.37                                | 0.59            | -7.12                      | -0.41            | -10.19          | -0.96                | -52.52 |
| 75    | 1,2,9,12,13,17,20,24,27,30,32,35,43,44                          | -8.86        | -6.49                     | 1.23   | -10.50                                     | 1.16                           | -0.55                      | -8.35                          | 0.07                                 | 0.59                               | 1.14                                | 2.13            | -5.54                      | -5.19            | -13.38          | 3.78                 | -51.70 |
| 76    | 1,2,9,12,13,17,20,24,28,33,43,44                                | -7.18        | -5.23                     | -4.10  | -10.50                                     | 1.16                           | -1.42                      | -17.60                         | -1.22                                | 0.59                               | 1.69                                | 1.11            | -4.00                      | -1.45            | -7.32           | 1.47                 | -51.08 |
| 66    | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44         | -8.59        | -3.98                     | -12.04   | -0.10                                      | -0.17                          | -0.83                      | 0.89                           | -1.22                                | -2.30                              | 1.05                                | -0.18           | -10.92                     | -0.21            | -5.12           | 3.78                 | -48.81 |
| 57    | 1,2,9,12,13,17,20,23,26,28,33,43,44                             | -6.50        | -3.98                     | -3.93  | -10.50                                     | 1.16                           | -1.21                      | -17.60                         | -1.22                                | 0.59                               | 1.66                                | 1.20            | -3.82                      | -1.45            | -6.99           | -5.02                | -48.73 |
| 372   | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44       | -8.69        | -3.98                     | -13.06   | -0.15                                      | -2.82                          | -0.93                      | -2.81                          | -1.22                                | 0.59                               | 1.29                                | 0.46            | -14.21                     | 1.46             | -0.94           | -2.99                | -47.99 |
| 46    | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44      | -8.64        | -0.21                     | -12.32   | -0.15                                      | -2.82                          | -0.62                      | 0.89                           | -1.22                                | -2.30                              | 1.03                                | -0.33           | -12.27                     | 0.83             | -5.34           | 0.03                 | -47.68 |
| 375   | 1,3,4,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44                | -11.08       | -7.74                     | -16.81   | -0.09                                      | -0.17                          | -1.94                      | 1.81                           | -1.22                                | 0.59                               | 1.59                                | 1.47            | -8.89                      | 0.21             | -5.45           | -3.96                | -47.42 |
| 49    | 1,2,9,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44               | -11.03       | -3.98                     | -16.07   | -0.09                                      | -0.17                          | -1.63                      | 5.51                           | -1.22                                | -2.30                              | 1.34                                | 0.68            | -6.94                      | -0.41            | -9.86           | -0.96                | -47.12 |
| 382   | 1,3,4,7,11,15,17,20,24,27,30,32,35,43,44                        | -8.24        | -6.49                     | 0.67   | -10.50                                     | 1.16                           | -0.64                      | -12.05                         | 0.07                                 | 3.48                               | 1.36                                | 3.00            | -7.31                      | -4.57            | -8.65           | 4.76                 | -46.87 |
| 56    | 1,2,9,12,13,17,20,23,26,27,30,32,35,43,44                       | -8.18        | -2.72                     | 1.40   | -10.50                                     | 1.16                           | -0.34                      | -8.35                          | 0.07                                 | 0.59                               | 1.11                                | 2.22            | -5.36                      | -5.19            | -13.05          | 5.04                 | -46.54 |
| 383   | 1,3,4,7,11,15,17,20,24,28,33,43,44                              | -6.56        | -5.23                     | -4.66  | -10.50                                     | 1.16                           | -1.51                      | -21.30                         | -1.22                                | 3.48                               | 1.91                                | 1.99            | -5.77                      | -0.83            | -2.59           | 2.45                 | -46.25 |
| 115   | 1,2,9,12,14,16,22,33,43,44                                      | -9.52        | -5.23                     | 5.65   | -10.50                                     | -1.49                          | -0.67                      | -16.67                         | -1.22                                | 0.59                               | 1.15                                | 0.54            | -2.27                      | -3.74            | -8.21           | 1.47                 | -45.67 |
| 276   | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44    | -10.01       | -6.49                     | -13.88   | -0.15                                      | -2.82                          | -1.32                      | 2.74                           | -1.22                                | 0.59                               | 1.24                                | -0.57           | -13.89                     | 1.67             | 1.71            | 6.25                 | -45.24 |
| 422   | 1,3,4,7,11,16,22,33,43,44                                       | -9.44        | -6.49                     | 4.74   | -10.50                                     | -1.49                          | -0.93                      | -21.30                         | -1.22                                | 3.48                               | 1.40                                | 1.46            | -4.19                      | -3.32            | -3.69           | -2.80                | -45.22 |
| 279   | 1,3,4,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44             | -12.40       | -10.26                    | -17.63   | -0.09                                      | -0.17                          | -2.33                      | 7.36                           | -1.22                                | 0.59                               | 1.55                                | 0.44            | -8.57                      | 0.42             | -2.70           | 0.20                 | -44.81 |
| 286   | 1,3,4,7,10,12,13,17,20,24,27,30,32,35,43,44                     | -9.55        | -9.00                     | -0.16  | -10.50                                     | 1.16                           | -1.04                      | -6.51                          | 0.07                                 | 3.48                               | 1.32                                | 1.97            | -6.99                      | -4.36            | -5.89           | 4.94                 | -43.99 |
| 373   | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44       | -7.97        | -3.98                     | -12.60   | -0.10                                      | -0.17                          | -0.93                      | -2.81                          | -1.22                                | 0.59                               | 1.28                                | 0.70            | -12.69                     | 0.42             | -0.39           | 4.76                 | -43.98 |
| 47    | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44      | -7.92        | -0.21                     | -11.87   | -0.10                                      | -0.17                          | -0.62                      | 0.89                           | -1.22                                | -2.30                              | 1.02                                | -0.08           | -10.73                     | -0.21            | -4.79           | -4.04                | -43.90 |
| 287   | 1,3,4,7,10,12,13,17,20,24,28,33,43,44                           | -7.87        | -7.74                     | -5.49  | -10.50                                     | 1.16                           | -1.91                      | -15.75                         | -1.22                                | 3.48                               | 1.87                                | 0.95            | -5.45                      | -0.62            | 0.16            | 2.63                 | -43.36 |
| 364   | 1,3,4,7,11,15,17,20,23,26,28,33,43,44                           | -5.88        | -3.98                     | -4.49  | -10.50                                     | 1.16                           | -1.30                      | -21.30                         | -1.22                                | 3.48                               | 1.88                                | 2.08            | -5.59                      | -0.83            | -2.26           | -5.02                | -43.32 |
| 353   | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44    | -8.01        | -0.21                     | -12.88   | -0.15                                      | -2.82                          | -0.71                      | -2.81                          | -1.22                                | 0.59                               | 1.25                                | 0.55            | -14.04                     | 1.46             | -0.61           | -2.99                | -42.59 |
| 679   | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44       | -5.49        | 2.30                      | -13.67   | -0.15                                      | -1.49                          | -0.09                      | -5.58                          | 0.07                                 | -2.30                              | 0.93                                | -0.16           | -12.21                     | 1.87             | -3.36           | 0.03                 | -42.27 |
| 356   | 1,3,4,7,11,15,17,20,23,26,27,30,31,40,41A,41B,42,44             | -10.41       | -3.98                     | -16.63   | -0.09                                      | -0.17                          | -1.72                      | 1.81                           | -1.22                                | 0.59                               | 1.56                                | 1.56            | -8.71                      | 0.21             | -5.12           | -2.28                | -41.62 |
| 682   | 1,3,5,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44                | -7.88        | -1.46                     | -17.43   | -0.09                                      | 1.16                           | -1.10                      | -0.96                          | 0.07                                 | -2.30                              | 1.23                                | 0.84            | -6.88                      | 0.63             | -7.76           | 0.72                 | -41.21 |
| 277   | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44    | -9.29        | -6.49                     | -13.43   | -0.10                                      | -0.17                          | -1.32                      | 2.74                           | -1.22                                | 0.59                               | 1.23                                | -0.33           | -12.37                     | 0.63             | 2.37            | 4.94                 | -41.10 |
| 363   | 1,3,4,7,11,15,17,20,23,26,27,30,32,35,43,44                     | -7.56        | -2.72                     | 0.84   | -10.50                                     | 1.16                           | -0.43                      | -12.05                         | 0.07                                 | 3.48                               | 1.33                                | 3.09            | -7.13                      | -4.57            | -8.32           | -3.85                | -41.01 |
| 268   | 1,3,4,7,10,12,13,17,20,23,26,28,33,43,44                        | -7.20        | -6.49                     | -5.32  | -10.50                                     | 1.16                           | -1.69                      | -15.75                         | -1.22                                | 3.48                               | 1.84                                | 1.04            | -5.27                      | -0.62            | 0.49            | 2.45                 | -40.84 |
| 690   | 1,3,5,7,11,15,17,20,24,28,33,43,44                              | -3.36        | 1.05                      | -5.28  | -10.50                                     | 2.49                           | -0.67                      | -24.07                         | 0.07                                 | 0.59                               | 1.55                                | 1.36            | -3.76                      | -0.41            | -4.90           | 5.45                 | -40.40 |
| 257   | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44 | -9.33        | -2.72                     | -13.71   | -0.15                                      | -2.82                          | -1.11                      | 2.74                           | -1.22                                | 0.59                               | 1.21                                | -0.48           | -13.72                     | 1.67             | 2.04            | -2.80                | -39.82 |
| 689   | 1,3,5,7,11,15,17,20,24,27,30,32,35,43,44                        | -5.04        | -0.21                     | 0.05   | -10.50                                     | 2.49                           | 0.20                       | -14.83                         | 1.37                                 | 0.59                               | 1.01                                | 2.38            | -5.30                      | -4.15            | -10.96          | 3.15                 | -39.76 |
| 583   | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44    | -6.81        | -0.21                     | -14.50   | -0.15                                      | -1.49                          | -0.48                      | -0.03                          | 0.07                                 | -2.30                              | 0.88                                | -1.20           | -11.89                     | 2.08             | -0.61           | 0.20                 | -39.40 |
| 260   | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44          | -11.72       | -6.49                     | -17.46   | -0.09                                      | -0.17                          | -2.12                      | 7.36                           | -1.22                                | 0.59                               | 1.52                                | 0.53            | -8.39                      | 0.42             | -2.37           | 6.20                 | -38.82 |
| 729   | 1,3,5,7,11,16,22,33,43,44                                       | -6.25        | -0.21                     | 4.12   | -10.50                                     | -0.17                          | -0.09                      | -24.07                         | 0.07                                 | 0.59                               | 1.04                                | 0.84            | -2.19                      | -2.91            | -6.00           | 6.94                 | -38.77 |
| 586   | 1,3,5,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44             | -9.20        | -3.98                     | -18.25   | -0.09                                      | 1.16                           | -1.49                      | 4.59                           | 0.07                                 | -2.30                              | 1.19                                | -0.19           | -6.56                      | 0.83             | -5.01           | -2.11                | -38.76 |

### 4.0 ENVIRONMENTAL IMPACTS OF THE PROPOSED ROUTE

This section contains a description of the potential environmental effects that could result from the construction, operation, and maintenance of the Proposed Route for the 345-kV transmission line from the existing Wolf Creek Substation to the existing Blackberry Substation. Following selection of the Proposed Route, modifications were made to further minimize impacts along the Proposed Route. Those modifications are described below. Potential impacts to both natural and social resources along the final Proposed Route are then considered.

# 4.1 Modifications to the Proposed Route Following Selection

The Route 65 was selected as the final Proposed Route as described in Chapter 3.0 from the segment and route data and corresponding route evaluation presented in Tables 3-3 and 3-4 and Appendices A and B. Following the route analysis that resulted in the selection of this Proposed Route, NEET Southwest subject matter experts completed a detailed review of the Proposed Route's alignment and made recommendations for adjustments. The adjustments were reviewed by the Project team and those that were approved were incorporated into the selected Proposed Route. Figure 4-1 shows the final adjusted alignment of the Proposed Route overlaid on the aerial constraint map.

Adjustments were made in conjunction with the completion of a detailed study of pole spotting. The detailed pole spotting resulted in adjustments that were needed to keep structures out of floodplains and streams and to minimize the need for wetland and floodplain permits. Access roads to preliminary structure locations were also evaluated to determine if structures needed to be adjusted to avoid access roads that would have to cross streams and wetlands. Adjustments were also made to cross railroads and highways as close to a 45- to 90-degree angle as possible and to avoid having known bridges and culverts located within 300 feet of the ROW. Finally, adjustments were made to the Proposed Route along Segments 38C, 38D, and 38E, moving the Proposed Route adjacent to the state line (on the Missouri side) to reduce clearing of wooded habitat, which could be areas in which the endangered gray bat could be found. This adjustment is also expected to reduce the impact to wetlands and reclaimed mined lands.

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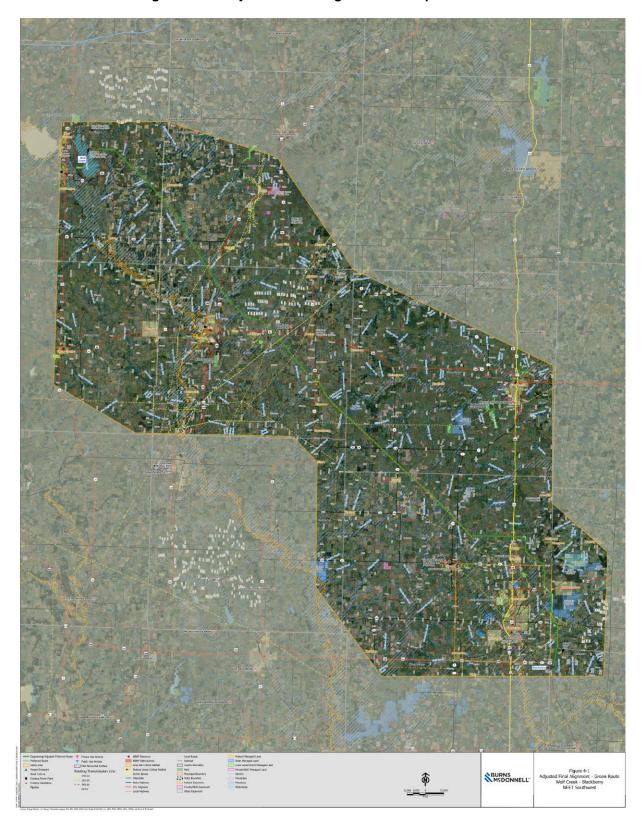


Figure 4-1: Adjusted Final Alignment — Proposed Route

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# 4.2 Final Proposed Route

The final Proposed Route selected for the Wolf Creek – Blackberry Project is the Proposed Route (also referred to as Route 65. The Proposed Route was selected for several key reasons:

- It is one of the shortest routes:
- It would not require any substantial design changes to avoid impacting the Atkinson Municipal Airport in Pittsburg, Kansas, and flights into and out of the airport;
- It would have less overall land use impacts because it parallels existing transmission lines (161-kV and lower) for over a quarter of its length;
- It would impact a very low amount of critical species habitat, including only 3.0 acres of
  woodland within the designated gray bat critical habitat, the least amount of broadhead skink
  habitat, and nearly the lowest amount of overall woodland clearing;
- It would have no impact to known archeological sites or sites listed on the NRHP;
- No public facilities are within 500 feet of the route;
- It would impact relatively few wetland and floodplain acres;
- It would cross relatively few existing transmission lines, which would improve reliability and reduce design challenges associated with the crossings; and
- While the route had a higher residential impact than other evaluated routes, it would still have a relatively low impact to houses for a 94-mile route (seven homes are within 150 feet and 21 homes are between 151 and 300 feet).

The following sections describe the Proposed Route and its potential impacts in more detail.

The adjusted Proposed Route is approximately 496,348 feet (94.0 miles) in length (Figure 4-1). The Proposed Route originates at the existing Wolf Creek Substation, located approximately one mile south of the intersection of Oxen Lane and 16<sup>th</sup> Road in Coffey County, Kansas. This Proposed Route would exit the Wolf Creek Substation to the east and then southeast, continuing diagonally to the southeast for approximately 41 miles, then another 27 miles while parallel to the existing Marmaton to Litchfield 161-kV transmission line. The Proposed Route would then turn east for about 7 miles to avoid the FAA obstruction areas around the Atkinson Municipal Airport on the northwest side of Pittsburg, then continue south/southeast for another 16 miles, extending into Missouri and paralleling the Marmaton to Litchfield 69-kV transmission line for approximately 2 miles and the existing Litchfield to Asbury 161-kV transmission line for approximately 3 miles. At this point, the Proposed Route would turn slightly

southwest for approximately 2.5 miles to connect with the Blackberry Substation, located approximately a half mile southeast of the intersection of SH 171 and Sumac Road in Missouri.

## 4.2.1 Proposed Route Data

Table 4-1 contains a cumulative summary of the data for the adjusted Proposed Route, as well as the range of values for all the other alternative routes compared from the analysis completed and described in Chapter 3.0. Acres of impacts were calculated based on a 150-foot-wide ROW.

# 4.3 Impacts on Natural Resources

Following is a description of potential impacts to natural resources from the construction and operation of the Proposed Route. These resources include topography, soils, hydrology, vegetation, wetlands, and wildlife.

## 4.3.1 Topography and Soils

Clearing, construction, and operation of the proposed Project would not result in any significant impacts to the existing topography. The Project would generally follow the existing contour of the land, and extensive grading or earthwork would not be necessary. Land clearing would consist of tree and shrub removal. Impacts, if any, to topography from the use of heavy equipment would be localized, limited, and temporary in nature.

The Project would result in temporary and minor adverse soil impacts within the ROW during construction regardless of the route selected. NEET Southwest's ROW clearing practices involve cutting vegetation within four inches of the ground. Stumps, low-growing vegetation, and root mats are left in place. There is no "grubbing" or grading within the ROW. However, some impacts to area soils would result from the use of heavy construction equipment and the excavation of soils required for installing the transmission structures. Construction activities, which are temporary in nature, can cause soil compaction, ruts or tracks from vehicular movement, and mixing of the soil profile.

During and following construction of the proposed transmission line, some erosion can occur within the cleared ROW. The National Pollutant Discharge Elimination System (NPDES) regulates discharges of wastewater and stormwater from construction activities such as this transmission line Project and requires the preparation and implementation of a sedimentation and erosion control plan to regulate and manage these discharges. In Kansas, the NPDES regulations are implemented by the Kansas Department of Health and Environment (KDHE) and in Missouri by the MDNR. Mitigation proposed in Chapter 5.0 includes Project compliance with the CWA and the NPDES, thus controlling offsite sedimentation and avoiding potential soil run-off into area streams.

Table 4-1: Proposed Route Summary Data

|               | Factor  | Proposed<br>Route  | Range for All Routes |  |  |  |  |
|---------------|---|--------------------|----------------------|--|--|--|--|
|               | Total Length (feet)   | 496,348            | 485,280 – 631,420    |  |  |  |  |
|               | Total Length (miles)  | 94.0               | 91.9 – 119.6         |  |  |  |  |
|               | Angles Over 30 Degrees (count)                              | 18                 | 12 - 29              |  |  |  |  |
|               | Highway Crossings (count)                                   | 12                 | 10 – 14              |  |  |  |  |
| Engineering   | Other Roadway Crossings (count)                             | 100                | 96 – 110             |  |  |  |  |
|               | Number of Pipeline Crossings (count)                        | 10                 | 10 – 18              |  |  |  |  |
|               | Transmission Line Crossings (count)                         | 10                 | 9 – 15               |  |  |  |  |
|               | Length Not Along Existing Transmission Line (feet)          | 369,620            | 329,070 – 538,570    |  |  |  |  |
|               | Length Not Along Roads (feet)                               | 477,210            | 449,800– 555,910     |  |  |  |  |
|               | Total Length through Karst Area (feet)                      | 307,350            | 282,360 – 347,790    |  |  |  |  |
|               | Length through Previously Mined Area (feet)                 | 51,930             | 20,220 - 69,380      |  |  |  |  |
|               | Oil/Gas Wells/Tanks in ROW (count)                          | 81                 | 0 - 3                |  |  |  |  |
|               | Outbuildings in ROW (count)                                 | 2                  | 0-6                  |  |  |  |  |
|               | Stream Crossings (count)                                    | 163                | 137 – 210            |  |  |  |  |
|               | Waterbodies in ROW (acres)                                  | 13.8               | 7.9 - 20.0           |  |  |  |  |
|               | Wetlands in ROW (acres)                                     | 36.4               | 32.2 - 55.4          |  |  |  |  |
|               | Floodplain in ROW (acres)                                   | 200.1              | 190 - 290            |  |  |  |  |
| Environmental | Woodland within Gray Bat Critical<br>Habitat in ROW (acres) | 3.0                | 0 – 32.8             |  |  |  |  |
| Environmental | Eastern Spotted Skunk Critical Habitat in ROW (acres)       | 65.7               | 26.2 – 205.9         |  |  |  |  |
|               | Broadhead Skink Critical Habitat in ROW (acres)             | 72.11              | 75.6 – 257.6         |  |  |  |  |
|               | Woodland in ROW (acres)                                     | 156.7 <sup>1</sup> | 163.3 – 459.4        |  |  |  |  |
|               | Sensitive Species Score (score)                             | 300.5              | 289.7 – 932.3        |  |  |  |  |
|               | Cropland in ROW (acres)                                     | 655.4              | 490.2 – 814.9        |  |  |  |  |
|               | Rangeland in ROW (acres)                                    | 842.3              | 696.2 – 1,053.5      |  |  |  |  |
|               | Archeological Sites within ROW (count)                      | 0                  | 0-2                  |  |  |  |  |
|               | Parcels Crossed (count)                                     | 299                | 293 – 368            |  |  |  |  |
|               | Length Not Along Parcel Boundary (feet)                     | 429,460            | 209,100 – 472,580    |  |  |  |  |
| Social        | Residences within 150 feet (count)                          | 7 <sup>1</sup>     | 0-5                  |  |  |  |  |
|               | Residences within 300 feet (count)                          | 21                 | 7 – 24               |  |  |  |  |
|               | Residences within 500 feet (count)                          | 18                 | 8 – 28               |  |  |  |  |
|               | Residential Proximity Score (score)                         | 81                 | 31 – 84              |  |  |  |  |
|               | Businesses within 300 feet (count)                          | 0                  | 0-1                  |  |  |  |  |
|               | Public Facilities within 500 feet (count)                   | 0                  | 0-3                  |  |  |  |  |

<sup>&</sup>lt;sup>1</sup> Values for the Proposed Route may no longer fall within the range of values for all routes due to the adjustments made following the selection of the preferred route (see Section 4.1)

#### 4.3.2 Water Resources

Construction and operation of the Project would not significantly impact surface water features along the Proposed Route. Based on USGS 1:24,000 scale topographic maps and NHD data, the Proposed Route would cross 163 streams.

The transmission line would be designed to span all waterbodies so that no structures would be placed within any waterway. All streams along the Proposed Route are narrow enough that they can easily be spanned with normal structure spacing and heights. Similarly, the construction and maintenance of the transmission line would not disturb any subsurface waters. Each structure would be buried to a depth of approximately 10 percent of the actual structure height plus 1.5 feet. Most of the structures would be buried approximately 9 to 15 feet, an insufficient depth to encounter most subsurface aquifers, if present.

NEET Southwest, as indicated above, intends to fully comply with the Kansas and Missouri Pollutant Discharge Elimination System standards, as well as other applicable laws, such as the Federal CWA. This compliance, coupled with NEET Southwest's limited-impacting ROW clearing practices, is intended to prevent offsite sedimentation, including impacts to streams and wetlands. Mitigation measures proposed in Chapter 5.0 would further reduce potential water quality impacts associated with stream crossings.

Most of the wetlands in the Study Area are emergent wetlands associated with creeks, ponds, and agricultural swales. The ROW for the Proposed Route would cross approximately 36.4 acres of NWI and Kansas potential wetlands and 13.8 acres of waterbodies. A desktop wetland analysis for the Proposed Route was conducted to further document potential wetland impacts. The results of this study are presented in a separate report.

To minimize impacts to wetlands and reduce complexity, cost, and timeline of wetland permitting, NEET Southwest has imposed the following constraints on the engineering of the transmission line and access roads:

- Minimize temporary impacts to wetland areas with access roads;
- All access roads through wetlands will be matted;
- Unless required for engineering, avoid all wetlands with pole locations;
- Where it is required to have a pole in a wetland, limit the loss of wetlands to no more than 1/10 acre per pole location; and
- Avoid all regulated activity in Designated State Waters which includes Outstanding National Resource Waters, Exceptional State Waters, or Special Aquatic Life Use Waters as listed in the Kansas Surface Water Register.

Construction and operation of the Project is designed to limit jurisdictional discharges to water or wetlands. Forested wetlands would be maintained as scrub / shrub or emergent wetlands. NEET Southwest's ROW clearing practices include hand-clearing in jurisdictional wetlands to help avoid jurisdictional discharges. Similarly, NEET Southwest typically can avoid placing structures in streams or smaller wetlands by spanning such areas. Erosion control measures described previously and in Chapter 5.0 would further minimize sediment from entering waterways or impacting wetlands.

NEET Southwest would conduct wetland / stream delineations and coordinate with the USACE regarding jurisdictional determinations for wetland / stream extent and location, if any would be impacted. NEET Southwest would seek approval for Section 404 and Section 401 permits from the USACE, KDHE, and MDNR. Should the Project require unavoidable impact to waters or wetlands, NEET Southwest would obtain the required approvals under the USACE Nationwide Permit Program.

NEET Southwest will minimize impacts to floodplains through intensive, site-specific layouts of both transmission line structures and access roads. The adjusted Proposed Route crosses approximately 200.1 acres of floodplain. All structures that may be located within a floodplain will exceed the Kansas Division of Water Resources (DWR) Utility Pole Stream Setback requirements; thus, NEET Southwest does not anticipate that the Project would need to obtain a permit from the DWR for floodplain impacts. A separate permit from the Missouri State Emergency Management Agency for constructing utility structures in floodplains would also not be required.

The Proposed Route crosses seven counties, each with specific floodplain regulations. Each county's floodplain regulations appear to be consistent with each other and very similar in their requirements. Close collaboration between our engineers and environmental staff will allow structures and access roads to be located and designed to minimize floodplain impacts and associated permitting risk. NEET Southwest does not anticipate that the Project will require an Engineering "No-Rise" Certificate because no utility poles are located within a regulatory floodway.

Terracon completed an assessment of possible karst areas along the Proposed Route. The adjusted Proposed Route crosses approximately 307,350 feet of possible karst area. If specific karst features (e.g., sinkholes, springs, etc.) are identified within the ROW during future field surveys along the Proposed Route, additional evaluations may be required to determine possible environmental impacts, including the potential for bat habitat, as well as possible design impacts caused by those karst features.

# 4.3.3 Vegetation

Construction and maintenance of the proposed transmission line would result in the loss of tall vegetation within the transmission line ROW due to shrub and tree clearing. Herbaceous vegetation would not be removed but could be damaged by construction equipment and vehicular movement. Disturbed areas in uplands would be mulched and / or re-seeded following the disturbance, as described in NEET Southwest's erosion control plan, which would be submitted to the KDHE and MDNR for the Project. Tree clearing would occur where the line crosses wooded fence rows, narrow riparian corridors, and undeveloped forested land. The adjusted Proposed Route would require clearing approximately 156.7 acres of woodland. In addition to the clearing of the actual maintained ROW, danger trees that could fall into the new transmission line and cause an outage would also be removed outside the maintained corridor.

Most woody vegetation that would be impacted consists of deciduous hardwood stands interspersed in some areas with red cedar. Mature trees, such as pines, oaks, hickories, and maples occurring in or immediately adjacent to the transmission line ROW, would have to be cleared to protect the integrity of the line. Ongoing maintenance of the ROW during operation of the line through mowing and/or herbicide application would encourage the proliferation of lower-growing types of vegetation, which helps stabilize the soil. Some cropland may also be impacted along the Proposed Route by the placement of structures. Impacts to crops are discussed in Section 4.4.1.1.

## 4.3.3.1 Federally Listed Plant Species

Mead's milkweed is a federally threatened plant species that may be located within the Study Area. This plant can occur in moderately wet to moderately dry upland tallgrass prairie or glade/barren habitat characterized by vegetation adapted for drought and fire (USFWS, 2019e). Almost all land crossed by the Proposed Route is cropland or pasture altered by agricultural operations, which would prohibit Mead's milkweed from proliferating. As a result, impacts to Mead's milkweed are expected to be relatively low, but NEET Southwest will work with the USFWS to avoid or minimize impacts wherever suitable habitat is found along the ROW.

#### 4.3.4 Wildlife

Construction and maintenance of the Proposed Route could result in some adverse impacts to wildlife. The removal of forested vegetation within or near the proposed ROW may impact foraging, shelter, or nesting habitat for some species. Impacts to most species would be temporary and short-term during construction and would consist primarily of displacement and disturbance. Some less mobile species occurring in the construction corridor could be directly impacted, and movements between segmented

habitats could be temporarily impeded due to noise and human presence. Additional temporary disturbance could occur during future maintenance of the line. No impacts are expected to fish or other aquatic species because perennial waterways would be spanned or avoided, and erosion control techniques would be used to limit sedimentation of waterways.

## 4.3.4.1 Federally Listed Animal Species

According to the USFWS, seven federally listed animal species are known, or have been known, to occur within the Study Area. These seven species include the gray bat, Indiana bat, and Neosho mucket (endangered) and the northern long-eared bat, Neosho madtom, Ozark cavefish, and rabbitsfoot (threatened). The Neosho mucket, Neosho madtom, Ozark cavefish, and rabbitsfoot are aquatic species and are not likely to be impacted by the Proposed Route because all perennial streams and open waters will be spanned. There is habitat or the potential for the occurrence of the gray bat, Indiana bat, and northern long-eared bat along the Proposed Route.

According to information obtained from USFWS, there are currently no known roost caves or hibernaculum structures for the gray bat in the vicinity of the Project in the Kansas and Missouri counties that are crossed. The Proposed Route crosses some forested areas that are likely to be suitable foraging habitat for this species and could be considered designated critical habitat by the KDWP. The NEET Southwest team has carefully reviewed all of these areas and worked to design the Proposed Route, including locating proposed structures and construction access roads, to reduce potential impacts to potential gray bat foraging habitat and areas that could be considered designated critical habitat. The Proposed Route crosses approximately 3.0 acres of woodland within the designated critical habitat area for the gray bat. Through ongoing coordination with the USFWS and KDWP, the NEET Southwest team has worked to reduce potential impacts to the gray bat to avoid the need for additional permitting and mitigation requirements. Tree clearing outside of the gray bat active season (April 1 to October 31) is an agency recommended measure that the NEET Southwest team would implement for the Project to minimize and avoid impacts to the gray bat. Unless the Project directly impacts a roost cave or hibernaculum structure, the USFWS will not require mitigation for gray bats simply for clearing trees during the winter. Other than the sewer systems in Pittsburg, the agencies have not identified any roost caves or hibernaculum structures that would be crossed by the Proposed Route.

The Indiana bat occurs in Missouri but is not likely to occur in Kansas. Currently, there are no known roosts for the Indiana bat in the vicinity of the Proposed Route in the Missouri counties crossed, according to conversations by our project biologist with USFWS. The Proposed Route crosses some forested areas that are likely to be suitable for this species. The NEET Southwest team has worked to

design the Proposed Route and locate proposed structures to reduce impacts to potential Indiana bat habitat. The Indiana bat is not anticipated to pose any potential risks to the Project because the NEET Southwest team is minimizing the amount of tree clearing required and would implement tree clearing for the Project outside of the Indiana bat roosting season (April 1 to October 31).

The northern long-eared bat occurs in Kansas and Missouri. The USFWS published a proposal on March 23, 2022, to reclassify the northern long-eared bat as endangered under the Endangered Species Act (ESA). The USFWS is under court order to complete a new final listing determination for the northern long-eared bat by November 2022. If finalized, the reclassification, would remove the current 4(d) rule. The 4(d) rule for northern long-eared bat specifies that incidental take as a result of tree clearing activities is only prohibited if it occurs within 150 feet of a known, occupied maternity roost during the pup rearing season (June 1 to July 31), or within 0.25-mile of a known hibernaculum at any time of year. Currently, there are no known maternity roosts for northern long-eared bats in the Kansas and Missouri counties crossed by the Project, according to conversations with USFWS. The Project crosses some forested areas that are likely to include suitable roost trees for this species. The NEET Southwest team has worked to design the Proposed Route and locate proposed structures to reduce potential impacts to potential northern long-eared bat habitat. The Project would not be prohibited under the 4(d) rule and because no known maternity roosts or hibernacula occur near the Project and the NEET Southwest team would implement tree clearing for the Project outside of the pup rearing season (June 1 to July 31). Guidance from the USFWS regarding restrictions or effects determinations is being drafted. NEET Southwest is planning to adhere to more stringent time of year tree clearing restrictions, conducting tree clearing outside of bat roosting season (April 1 to October 31); no impacts to this species are anticipated.

The Project is within the range of the bald eagle and the winter range of the golden eagle. However, due to their rarity in Kansas and Missouri, the Project is not anticipated to impact golden eagles. The Project will be designed following Avian Power Line Interaction Committee (APLIC, 2012) suggested practices to minimize impacts to migratory birds and eagles. Eagle nest surveys will be conducted prior to construction of the Proposed Route and construction activity around active nests will be avoided until eagles have fledged, in coordination with the USFWS.

# 4.3.4.2 State Listed Animal Species

The gray bat, eastern spotted skunk, and broadhead skink have KDWP-designated critical habitat located within the Study Area and along the Proposed Route. The potential for impacts to the gray bat are described in the previous section because it is also listed as a federally protected species.

The eastern spotted skunk is listed as a Kansas threatened species and a Missouri endangered species; it is not a federally protected species. Eastern spotted skunks prefer forest edges, upland prairie grasslands, and riparian corridors where rock outcrops and shrub clumps are present. This species may also occur in fencerows and abandoned farm buildings. KDWP has designated all suitable habitat within Anderson County, Kansas, as critical habitat for this species; no critical habitat has been designated in the State of Missouri.

NEET Southwest has completed desktop evaluations using GIS data and aerial photographs and windshield surveys to identify areas that KDWP would likely consider designated critical habitat for the eastern spotted skunk. The Proposed Route crosses approximately 65.7 acres of possible eastern spotted skunk critical habitat. Additional on-the-ground evaluation during the permitting phase of the Project will be necessary to determine the suitability of potential designated critical habitat areas crossed by the Project as suitable habitat and determine the level of coordination with the KDWP. The NEET Southwest team has been coordinating with the KDWP to reduce potential impacts to the eastern spotted skunk and avoid additional permitting and mitigation requirements. Measures suggested by KDWP that could be implemented along the Proposed Route are described in Chapter 5.0 and would also help to further minimize the potential impacts of this Project.

The broadhead skink is listed as a threatened species in Kansas. The broadhead skink is not a federally listed species or a listed species in the State of Missouri. KDWP has designated all stands of mature oak woodland in Bourbon and Crawford Counties in Kansas as critical habitat for this species.

Through a detailed evaluation of aerial photography and GIS data, NEET Southwest's Proposed Route would avoid and minimize impacts to wooded habitats that appear to be mature oak woodland. The Proposed Route would cross approximately 72.1 acres of possible broadhead skink critical habitat. Additional on the ground evaluation during the permitting phase of the Project will be necessary to determine if the wooded areas crossed are considered suitable habitat and determine the level of coordination with the KDWP. The NEET Southwest team has been coordinating with the KDWP to reduce potential impacts to the broadhead sink and avoid additional permitting and mitigation requirements. Measures suggested by KDWP that could be implemented along the Proposed Route are described in Chapter 5.0 and would also help to further minimize the potential impacts of this Project.

The NEET Southwest team has reviewed state and federal lists of protected species for the areas crossed by the Proposed Route. Additional threatened and endangered species are known or likely to occur in the Kansas and Missouri counties crossed by the Proposed Route. However, most of these protected species

are known from specific habitats not crossed by the Proposed Route or are aquatic dependent species that are associated with a specific stream that is either avoided or is spanned by the Project. KDWP has designated critical habitat for some state listed aquatic dependent species in Kansas but has indicated that a Kansas State Action Permit would not be necessary if the aquatic feature, including the designated critical habitat, is spanned by the Project.

# 4.3.5 Managed / Protected Lands

The Proposed Route crosses no Federal or State-owned lands, except for a crossing of the KDWP-owned Prairie Spirit Trail, which is a former railroad corridor that has been rail banked and converted to a public use recreational trail. KDWP holds the Notice of Interim Trail Use (NITU) for the Prairie Spirit Trail and is responsible for the maintenance of the trail. According to KDWP, KDWP indicated that they would be the sole agency that would be responsible for reviewing the project and issuing a utility crossing permit/easement. Although it has been designated a National Recreation Trail, there would be no federal agency involvement.

The NEET Southwest design team reviewed potential crossing locations along the Prairie Spirit Trail based on input from KDWP. Because this trail could revert to an operational railroad in the future, the crossing angle, proposed conductor height above the trail, adjacent transmission line structure locations and distances from the trail right-of-way will all be designed to comply with railroad crossing requirements. This will eliminate any future modifications to the transmission line that would be required if Prairie Spirit Trail reverts to a railroad.

The data used to evaluate possible impacts to environmentally sensitive lands was provided by the Protected Areas Database of the U.S. (PADUS) and NCED datasets, which catalog lands managed by state or federal agencies, as well as conservation easements or mitigation lands. Additionally, county parcel data was reviewed to identify lands that may be owned by federal or state entities. Based on the available data, the Proposed Route would not likely impact any Federal or State easements. It is possible, though not expected, there are yet unknown or undocumented environmentally sensitive lands located within the path of the Proposed Route. Once the Proposed Route is approved by the KCC and MPSC, NEET Southwest would work with the landowners, the USFWS, USACE, State, and local agencies prior to construction to identify environmentally sensitive lands and design to avoid structure placement on these lands or develop mitigation strategies to limit potential impacts to them.

# 4.4 Impacts on Social Resources

This section contains a discussion of the potential impacts of the Project in general and the Proposed Route in particular on the social resources in the area, including land use, socioeconomics, and cultural resources.

## 4.4.1 Land Use and Development

The following paragraphs provide information on potential impacts to agriculture, urban and residential areas, recreational areas, and transportation and utility corridors. In general, the Proposed Route would have very limited impacts on the existing land uses in the area. NEET Southwest would work with individual landowners to the extent feasible to reach agreeable solutions to land use conflicts that may arise.

# 4.4.1.1 Agriculture and Other Land Uses

Construction and operation of the Proposed Route could result in some minor impacts to agricultural land within the proposed ROW. The Proposed Route would cross approximately 655.4 acres of cropland, based on land use classifications made in the Kansas DASC Land Cover Patterns Level IV-2005 data and NASS data for Missouri. Impacts to cropland would occur because structures and guy wires placed in cropland remove some of the land from production and may create obstacles for large farm machinery. Some structure and minor alignment adjustments may be made during future easement consultations with landowners to further reduce impacts. Temporary disturbance from heavy equipment within the ROW may result in the loss of some crops during construction. The only land that would be unavailable for agricultural use following construction would be the area occupied by the structure or guy wires. Other cropland within the ROW can continue to be farmed.

The Proposed Route would cross approximately 842.3 acres of rangeland (as defined by the Land Cover Patterns Level IV -2005 data and the NASS dataset for Missouri). Some of the rangeland in the Study Area is used as pasture. The new transmission lines should not have a major impact on rangeland or on the livestock that may graze these lands. Livestock may congregate near structures for shade or other purposes.

## 4.4.1.2 Urban and Developed Areas

Though predominately rural, there are still homes scattered throughout the area, mostly concentrated along highways and other local roads. The adjusted Proposed Route would be constructed within 500 feet of 46 homes, although only 7 of these homes would be within 150 feet of the Proposed Route and only 21 would be located between 151 and 300 feet. An adjustment made to the Proposed Route following the

route evaluation (Section 4.1) to follow a road corridor reduced impacts to gray bat habitat, reclaimed mine lands, and wetlands but increased the number of homes located close to the line. This adjustment was made along the southern portion of the Proposed Route in Missouri. Many of the houses within 500 feet of the new Proposed Route are on the opposite side of the road from the adjusted Proposed Route. Despite this increase, the residential impact is still relatively low for an approximately 94-mile route. There are no identified businesses or public facilities located within 500 feet of the adjusted Proposed Route.

During easement negotiations, NEET Southwest and its land agents would work with individual homeowners to minimize impacts to their homes and properties to the extent possible, while still balancing overall cost and environmental impacts.

The adjusted Proposed Route crosses some apparent active oil / gas fields. Based on the Kansas DASC active well data and an attempt to identify wells during the route field review along public roads, the adjusted Proposed Route would have 8 wells or tanks within its ROW. However, the data is not reliable as it was difficult to accurately locate all wells and tanks from public roads and the Kansas DASC data does not appear to be exceptionally accurate. NEET Southwest will complete a field survey along the Proposed Route to verify locations of active wells and will make any necessary adjustments as needed to minimize impacts to those actually located in the ROW.

The adjusted Proposed Route crosses approximately 51,930 feet (approximately 10% of the total route length) of areas that were previously mined, based on a review of historic mine maps and data. These areas may contain contaminated soils, soil mounds, wetlands, and other features that may require design modifications, structure shifts, or alignment shifts once field surveys are completed along the Proposed Route. Due to the high amount of mining activity in the southeastern Study Area it would be difficult to identify a route that does not cross previously mined lands.

#### 4.4.1.3 Recreation Areas

No lands crossed by the Proposed Route (other than the Prairie Spirit Trail discussed in Section 4.3.5 above) are reserved for recreational use. However, outdoor recreational opportunities, such as hunting and fishing, may occur on private lands within the forested and agricultural areas and along creeks. The Proposed Route crosses reclaimed mine lands in the southern portion of the Project area where there may be a slightly greater concentration of hunting activities. Limited, temporary impacts to seasonal hunting activities may occur during construction of the transmission line.

# 4.4.1.4 Transportation and Aviation

Construction of the Proposed Route may result in some brief disruption of traffic during stringing of the line and hauling of material to the job site. Most roads in the Study Area are considered local routes, some of which are crossed by the Proposed Route. The Proposed Route crosses 12 U.S. and State highways and an additional 100 local roads. The Proposed Route crosses eight railroad corridors, but four of the crossings appear to be inactive railroads. Three crossings are of the Wolf Creek Plant spur, which is the origin of this Project. Railroads are owned by BNSF, SKOL, KCS, and UP. NEET Southwest would adhere to city, county, state, and federal regulations for road and railroad crossings and would coordinate with KDOT and MODOT to verify State-requirements are met and to acquire permits as needed. Necessary coordination and permits would also be obtained from BNSF, SKOL, KCS, and UP for the railroad crossings.

The Proposed Route is located outside the identified airspace obstruction surfaces near the Atkinson Municipal Airport and does not appear to be located near any private airstrips. Preliminary structures have been filed with the FAA at locations closest to the Atkinson Municipal Airport to verify obstruction calculations. Although not anticipated, modifications will be made to the structures or alignment should any be identified by the FAA as an airspace obstruction.

#### 4.4.1.5 Utilities and Communication Towers

The Proposed Route crosses 10 existing transmission lines. The operation of the new 345-kV line would result in an overall increased reliability of electrical service both in and out of the Study Area. NEET Southwest has adjusted the Proposed Route so that most existing line crossings would be located at the mid-span (low point of the conductors) between structures to keep the height of the new line lower. The Proposed Route also crosses 10 large-diameter gas, oil, and petroleum transmission and gathering lines as well, and there may be oil and gas wells located close to the Proposed Route or even in the ROW. NEET Southwest would coordinate with the other utility owners during construction as needed to minimize impacts to active facilities.

There is only one communication tower located within 500 feet of the Proposed Route. It is located just north of the Wolf Creek Substation on the west side of Oxen Lane. According to FCC data, it contains both Antenna Structure Registration (ASR) and microwave antennas registered to Evergy. While this tower would be within 500 feet of the Proposed Route, the line would not affect the tower or the guy lines, nor would any impact to the tower be anticipated due to the presence of the substation, power plant, and other existing transmission lines already in the vicinity of the tower.

## 4.4.2 Socioeconomic Patterns

This section addresses the potential impacts of the Proposed Route on the socioeconomic patterns in the Study Area. The topics include population, employment, and income.

## 4.4.2.1 Population

Construction and operation of the Proposed Route would not directly result in a change in the population in the Study Area. However, the Project would help to meet the electrical needs of the area and increase reliability of the electrical system in the vicinity. Reliable electric service is important to residents and can be a significant factor in the location of many industries. The Proposed Route also avoids densely populated areas. There are some slightly more densely developed areas where the Proposed Route approaches Pittsburg, but the Proposed Route avoids the majority of development associated with the city.

# 4.4.2.2 Employment and Income

Construction and operation of the new line would not significantly affect employment in the Study Area. The construction work force would be small and temporary. Workers would likely commute on a daily or weekly basis to the construction area. The presence of additional workers may result in a slight increase in retail sales in and near the Study Area due to purchases of food, fuel, and other merchandise. No additional staff would be expected for Project operations. By helping to relieve electrical congestion and improving reliability, industries and businesses may be attracted to the area in the future, thereby increasing the potential for employment in and around the Study Area. The Project would also increase the tax base in Coffey, Anderson, Allen, Bourbon, Crawford, Barton, and Jasper counties because NEET Southwest would pay property taxes based on the value of the new electric transmission line.

#### 4.4.3 Cultural Resources

The route identification process included avoidance of known historical and archaeological resources based on a records search within one mile of the preliminary alternative routes within the Study Area conducted by Burns & McDonnell using data provided by the Kansas and Missouri SHPOs. This search indicated there were no known NRHP-listed or eligible archaeological sites or historic structures that may be crossed by or within a quarter-mile of the adjusted Proposed Route, nor were there any unevaluated, documented cultural sites located within the Proposed Route ROW. Because much of the area has not been surveyed, additional investigations may reveal sites or areas of cultural concern. If the SHPOs or Tribal Historic Preservation Office (THPO) require an archaeological survey of portions of the Proposed Route, NEET Southwest would retain a consultant to perform the survey and submit the results, and any

proposed mitigation would be coordinated with the SHPOs and/or THPO. Structure placement generally can be adjusted to avoid most archaeological sites.

#### 4.4.4 Visual Character

The visual character of an area is a function of the terrain, land cover and land use. Construction and operation of the transmission line would impact the existing aesthetics of the Study Area through which the line passes, primarily due to the clearing of trees and the introduction of a new linear facility.

The transmission line could create some visual contrast with the surrounding environment. The Proposed Route was routed to parallel existing lines when possible to help keep visual impacts in a common corridor. The Proposed Route would parallel existing lines for approximately 26 percent of its length. Where present, surrounding forest vegetation and terrain may also help to provide visual screening of the transmission line. Crossing open agricultural or pastureland can make the line more visible from viewpoints with a long perspective. Additionally, the line would be seen at road crossings and where the line is constructed near or along roads, although only about two percent of the Proposed Route would be constructed along a road. Visibility from the roads, especially at road crossings, would be temporary and fleeting, due to the normal flow of traffic.

# 4.5 Proposed Route Impact Summary

The construction and operation of the proposed Project would have limited impacts on natural and social resources in the Study Area. The following is a summary of the impacts of the Proposed Route.

The Proposed Route would have relatively minor overall impacts because many resources can be spanned or have been avoided during the route identification and analysis process described in Chapter 3.0. The Proposed Route was one of the shortest routes and, as a result, would have relatively low land use impacts. The Proposed Route would not impact flights into and out of the Atkinson Municipal Airport and parallels existing transmission lines for over a quarter of its length. Furthermore, the Proposed Route would have one of the lowest impacts to the natural environment, including low impacts to protected species habitat, wetlands, and floodplains. The results of this analysis indicate the Proposed Route would have relatively low overall impacts to the social and natural environment. Mitigation measures as described in Chapter 5.0 would also help to further minimize the potential impacts of this Project.

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#### 5.0 MITIGATION MEASURES

Mitigation measures are those steps undertaken to reduce the potential impact of the construction or operation of a project on natural and social resources. The primary forms of mitigation are avoidance of potential negative impacts, which typically occurs during the initial route development, and minimization, such as paralleling new lines adjacent to existing lines to reduce the required ROW width and overall impacts.

This section includes a discussion of the steps taken to avoid negative impacts through the routing and design of the proposed transmission line. For those impacts that could not be avoided, recommended measures for reducing impacts are described. If impacts cannot be avoided or minimized to the extent that no substantial adverse effect is expected, additional mitigation may be required by the agencies in charge of the resource affected.

## 5.1 Mitigation of Natural Resource Impacts

The Proposed Route would traverse approximately 94 circuit miles of new transmission line from the existing Wolf Creek Substation to the Blackberry Substation, depending on the final route approved by the KCC and MPSC. The primary issues discussed in Chapter 4.0 regarding natural resources were soil and erosion control, water resources and wetlands, and threatened and endangered species. Measures to reduce or eliminate potential negative impacts to these resources are described below.

#### 5.1.1 Soil and Erosion Control

NEET Southwest would submit an erosion control plan to the KDHE and MDNR for approval prior to Project construction. NEET Southwest may be able to file a simplified plan, since ROW clearing typically only involves cutting of vegetation above-ground, with no "blading," "grubbing," or other typical land-disturbing activities. NEET Southwest also limits impacts to stream buffers and other "sensitive" areas by using internal construction buffers that must be hand-cleared during construction, in addition to the "sensitive" area itself.

In upland areas, holes for each structure would be dug with an auger, and the structures would be erected using a crane. Most structures would be buried directly in the ground. Excess soil from the structure excavations in uplands would be evenly distributed around each structure and the soil stabilized. Excess soil in wetland areas would be transported to upland areas and stabilized. Structures have been sited in uplands outside of wetlands and streams. Temporary access roads may traverse wetlands. In these instances, crossing locations will be located to minimize the length of the wetland crossings and construction matting will be used. Similarly, some streams might be crossed with temporary culverts or

bridges. Access routes will also be selected to reduce impacts by following existing ground contours.

Areas disturbed by construction activities would be restored by establishing an appropriate ground cover to limit erosion of the soil.

Where possible, contractors would use existing access roads along the ROW that are paralleled. If new access roads are required, they would be routed, where practicable, to follow present land contours and limit clearing and surface changes.

#### 5.1.2 Protection of Water Resources and Wetlands

NEET Southwest would survey the Proposed Route for jurisdictional waters and wetlands. NEET Southwest's standard transmission ROW clearing and line construction practices call for avoiding impacts to waters and wetlands to the extent practicable. All vegetation is cut to near-ground level. Vegetative buffers adjacent to streams are left as appropriate (only low-growing vegetation can be left). No "blading" or "grubbing" of stumps is allowed, and remaining root mats typically sprout and quickly re-vegetate ROW with native species. Remaining stumps help maintain stream bank stabilization. Temporary access roads may cross wetlands with construction matting and streams might be crossed with temporary culverts or bridges.

There would be no change in contours or redirection of water flow, and the amount of spoilage from the installation of structures would be limited. Any excess spoilage would be spread evenly around the structure location. Trees outside of the ROW corridor tall enough to endanger the line if they fell ("danger trees") would be selectively cut.

If required, NEET Southwest would work closely with the USACE, KDHE, and MDNR to comply with the applicable regulations and permit conditions, if necessary. Additional mitigation measures may be implemented following consultation with the USACE for Section 404 compliance, if required.

# 5.1.3 Protected Species

Tree clearing outside of the gray bat active season (April 1 to October 31) is an agency recommended measure that the NEET Southwest team would implement for the Project to minimize and avoid impacts to the gray bat. Unless the project directly impacts a roost cave or hibernaculum structure, the USFWS will not require mitigation for gray bats simply for clearing trees during the winter. Currently no known roost caves or hibernaculum structures are located in proximity to the Proposed Route.

The NEET Southwest team is minimizing the amount of tree clearing required along the Proposed Route and would implement tree clearing for the Project outside of the Indiana bat roosting season (April 1 to

October 31) to mitigate for any potential Indiana bat impacts. Likewise, NEET Southwest would implement tree clearing for the Project outside of the northern long-eared bat pup rearing season (June 1 to July 31), so no impacts to this species are anticipated.

Based on conversations with KDWP, potential measures that would be implemented to mitigate for impacts to designated critical habitat for the eastern spotted skunk and broadhead skink include stacking cut timber in piles or placing individual logs in upland areas along the edges of woodlands and the Project right-of-way to provide refuge habitats for these species.

Additional communication with the USFWS, KDWP, and MDC regarding potential impacts concerning state and federally protected species would occur during the permitting phase of the Project. State or federally protected species known to occur within the Study Area or near the Proposed Route ROW are not expected to be adversely impacted.

Eagle nest surveys will be conducted prior to construction of the Proposed Route and construction activity around active nests will be avoided until eagles have fledged, in coordination with the USFWS.

Based on preliminary inquiries with the regulatory agencies, the NEET Southwest team intends to implement appropriate Best Management Practices (BMPs) during construction to intercept stormwater runoff that could be carrying silt and sediment and protect off areas outside of the Project footprint. The type and location of these BMPs would be identified and during the permitting phase of the Project and coordinated with the KDHE and MDNR.

If necessary, NEET Southwest would hire a consultant to conduct a survey of the Proposed Route to determine whether potential habitat for protected species is likely to be impacted by the Proposed Route. If habitat is found along the Proposed Route, surveys to determine the presence or absence of protected species along the Proposed Route may be necessary. If mitigation is required to avoid damage to protected plant and wildlife species communities or habitat, NEET Southwest would implement strategic structure placement, avoidance, or other USFWS, KDWP, or MDC recommendations.

# 5.2 Mitigation of Social Resource Impacts

The main issues discussed in Chapter 4.0 related to social resources were land use, cultural resources, and visual character. Measures to avoid or reduce potential negative impacts to these resources are described below.

#### 5.2.1 Land Use

All routes that were initially developed were developed to limit impacts to residences and other land uses where possible. The Proposed Route was identified to avoid areas with dense residential subdivisions and commercial operations as much as possible. Following award of the Project, NEET Southwest began to work with individual landowners, as needed, to reach mutually acceptable solutions to the extent feasible for land use conflicts that may arise.

## 5.2.2 Cultural Resources

The route identification process included the avoidance of known historical and archaeological resources. In this instance, no NRHP-listed or eligible sites, nor any unevaluated sites, were found to occur along the Proposed Route. No mitigation for the protection of cultural resources is anticipated at this time. In coordination with the SHPOs and relevant THPOs, NEET Southwest will complete archaeological surveys along the Proposed Route. If the survey results in the discovery of any sites that could be considered eligible for the NRHP, the line or structures could be adjusted to avoid the sites, or other actions would be taken as recommended by the SHPOs or THPO. Should impacts to sites that could be considered eligible for the NRHP be unavoidable, the survey findings would be submitted to the SHPOs and THPOs, and any proposed mitigation would be coordinated with the SHPOs and THPOs.

#### 5.2.3 Visual Character

Most of the structures for the proposed Project would be monopoles. Single pole structures can be less visible than other structure types because there is only one pole to be viewed for each structure, as opposed to two poles for H-frame structures or guyed v-structures and a web of steel for lattice towers. NEET Southwest intends to use concrete material for their structures. This material can be less visible at longer distances where the color blends better with the background but may be more visible at closer ranges than other structure materials, such as weathering steel. While spans may be shorter for single poles vs. H-frames, the vertical alignment of the conductors allows for a narrower ROW and less clearing and creates a more vertical view as opposed to a wider horizontal view. Where practicable, structures would be located to take advantage of any existing vegetation for screening from residences and roadways. Typically, the structure itself creates the most visual contrast for a transmission line, so longer spans would result in fewer overall structures and less overall visual impact compared to other structure designs. Because angle structures are larger, require more space, and hence are more visible, all routes were designed to minimize the number of such structures to the extent practicable, while also avoiding residences and other known constraints.

# 5.3 Conclusion

By following NEET Southwest's standard clearing and construction practices, the route selection process described, and the above mitigation techniques, most potential impacts along the Proposed Route would either be avoided or minimized. As a result, the construction and operation of the Proposed Route would have limited effects on the natural and social resources.

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## 6.0 PUBLIC INVOLVEMENT & PROJECT OUTREACH

#### 6.1 Public Involvement Overview

To determine community values relative to the Project, the route selection process included several forms of public input, including communications with county commissioners and public interest groups, virtual public open houses, and direct landowner communication. All input was used to assess the values and attitudes of the stakeholders regarding the Project and facilitate further refinement of the Proposed Route.

## 6.2 Identifying Project Stakeholders

# 6.2.1 Potentially Affected Landowners

Potentially affected landowners are an integral part of any project, and communications with those individuals are paramount to a successful project. After the Project's Proposed Route and corresponding route alternatives were developed, the Burns & McDonnell public involvement team created notification boundaries to identify potentially impacted parcels and landowners. For the Kansas portion of the Project, this boundary was drawn 1,000 feet from the centerline of the Proposed Route and proposed alternatives running through Coffey, Anderson, Allen, Bourbon, and Crawford Counties; the Missouri boundary was 300 feet through Barton and Jasper Counties.

#### 6.2.2 Elected Officials

It is important to keep elected leadership well-informed of the Project, the goals and impacts that it may have on the area, and the Project team's plans for engaging the local residents and stakeholders. All Project communications distributed to landowners were also sent to the appropriate elected public offices, including state and federal officials, and other elected officials from municipalities and counties.

# 6.3 Project Communications

The Project team used the communication tools outlined in this section to inform and educate stakeholders of the affected communities in both Kansas and Missouri about the Project in a proactive manner, making Project messaging readily available to interested parties across a variety of channels and allowing for two-way communication between Project team members and public stakeholders.

In conjunction with NEET Southwest, the Burns & McDonnell public involvement team helped develop Project messaging to communicate with the public. This messaging includes Project specifics, past NEET Southwest endeavors, and industry best practices.

# 6.3.1 Project Hotline and Email

During the initial phases of Project outreach, Burns & McDonnell established and managed a toll-free Project hotline with a local prefix. This portal has allowed the Project team to interact with landowners and community stakeholders and ascertain prevalent questions and concerns that the public may have. A Project email address was also created and managed by NEET Southwest.

The hotline and email address that were established for the initial public outreach and open house process will remain in effect throughout the Project's development and construction phases so that stakeholders can continue to provide input and ask questions of the Project team. All hotline voicemails are logged by the public involvement team and forwarded to the larger Project team for consideration and response. The hotline number is 620-205-2051. The email address is neetsw@nexteraenergy.com. As of May 6, 2022, there have been 18 messages left on the Project hotline and 15 emails received to the Project email address.

## 6.3.2 Project Website

Key Project messaging and associated materials were incorporated into an intuitive Project website that provides relevant information to the public and landowners. In tandem with the Project hotline and email address, a contact form was integrated on the website and utilizes the same approach regarding returning messages. Periodic updates on Project progress, public meetings, maps, and other Project news will be updated on the website throughout the life of the Project's development and construction. The URL for the Project website is: www.nexteraenergytransmission.com/subsidiaries/neetsw/projects/wolf-creek-blackberry.html.

The Project website was established early in the Project and includes information regarding Project need and benefits, schedule, public meeting information, maps, and frequently asked questions and answers. The Project website includes the following sections:

- Site home page, which functions as the primary landing page for stakeholders to learn about the
  Project and navigate throughout the site functions and subpages to find more information. On this
  page, stakeholders are given the following segments of information:
  - An overview map of the entire project area and Proposed Route; this map is also hyperlinked and made available to download
  - o Project overview giving a brief background on the Project
  - o Callout banner for the virtual open house and a link to the open house subpage
  - o Breakdown of the Project benefits

- Project fact sheet linked for download
- o Graphic outlining the general timeline anticipated
- Information on the Project's intended structure design including a visual rendering and photograph for better explanation
- Contact information to the Project hotline and email address
- FAOs
- Contact Us page where stakeholders can submit feedback and connect with Project team
  members. In tandem with the hotline and email, the Contact Us portal employs the same approach
  regarding returning messages.

The Project's inclusive approach to stakeholder engagement necessitates the development of input portals. The website allows stakeholders to obtain Project information and offers them multiple avenues through which they can contact or interact with Project team members. Appendix C contains screenshots of the Project website along with copies of other materials available for download on the site.

## 6.3.3 Open House Invitations

# 6.3.3.1 Mailing List

After the Project's Proposed Route and corresponding route alternatives were developed, Burns & McDonnell developed a mailing list for landowner notifications that included both parcel situs and mailing addresses to better disseminate information to all appropriate parties. The mailing lists were not only used during the virtual open house postcard distribution, but also allowed the Project team, including land agents, to better identify and catalog future communications with landowners.

#### 6.3.3.2 Landowner Postcards

On Monday, Feb. 28. 2022, the Burns & McDonnell public involvement team mailed color postcard invitations to the potentially affected landowners list. These postcards were also sent to elected officials and key personnel for each county and their respective cities. A copy of the postcard is located in Appendix D.

CountyPotentially Affected<br/>ParcelsPotentially Affected<br/>LandownersAllen County, KS148103Anderson County, KS5443Bourbon County, KS3515

Table 6-1: Parcels & Landowners by County

| County              | Potentially Affected<br>Parcels | Potentially Affected<br>Landowners |  |  |  |  |  |
|---------------------|---------------------------------|------------------------------------|--|--|--|--|--|
| Coffey County, KS   | 69                              | 42                                 |  |  |  |  |  |
| Crawford County, KS | 232                             | 148                                |  |  |  |  |  |
| Barton County, MO   | 24                              | 18                                 |  |  |  |  |  |
| Jasper County, MO   | 10                              | 9                                  |  |  |  |  |  |
| Total               | 572                             | 378                                |  |  |  |  |  |

# 6.3.3.3 Newspaper Advertisements

As part of the communications process for the virtual open house events, local newspapers serve as a valuable resource for disseminating information and effectively reaching local communities. As such, Burns & McDonnell identified relevant newspaper publications in each affected county to publish full color, quarter-page advertisements announcing the upcoming virtual open houses and key information. Each publication's ad ran at least two-weeks prior to the open houses to allow ample opportunity and prior notice for interested individuals to attend.

**Table 6-2: Newspaper Advertisements** 

| County              | Publication              | Publication Date |  |  |  |  |  |
|---------------------|--------------------------|------------------|--|--|--|--|--|
| Allen County, KS    | Iola Register            | 03/02/2022       |  |  |  |  |  |
| Anderson County, KS | Anderson County Review   | 03/01/2022       |  |  |  |  |  |
| Bourbon County, KS  | Fort Scott Tribune       | 03/02/2022       |  |  |  |  |  |
| Coffey County, KS   | Coffey County Republican | 03/03/2022       |  |  |  |  |  |
| Crawford County, KS | The Morning Sun          | 03/04/2022       |  |  |  |  |  |
| Barton County, MO   | Lamar Democrat           | 03/02/2022       |  |  |  |  |  |
| Jasper County, MO   | The Joplin Globe         | 03/03/2022       |  |  |  |  |  |

Identification of these newspapers involved web research to identify the best publication for each county, and ultimately was decided by selecting the largest newspaper for its corresponding county to have the greatest potential community reach. The newspaper ads included a unique URL to the open house registration page to track the number of individuals who registered for the event after seeing the ad; a total of 10 respondents visited the registration page directly from the newspapers' ads. Scanned copies for the newspapers' advertisements are in Appendix D.

# 6.4 Virtual Open Houses

Due to concerns over the COVID-19 pandemic and considering the health and safety of the community and team members, NEET Southwest elected to host virtual events in lieu of traditional, in-person open houses. The well-being of the Project's communities has always been NEET Southwest's and Burns & McDonnell's highest priority, and as such, NEET Southwest and Burns & McDonnell sought to provide the safest environment for landowners to engage with the Project team.

#### 6.4.1 Overview

The intent of the virtual public open house was to provide potentially affected landowners, business owners, and other stakeholders near the Proposed Route with an understanding of the need for the Project and the decision-making process used to select the Proposed Route and to provide a forum to voice their questions and concerns about the Project.

Under the direction of NEET Southwest, the Burns & McDonnell public involvement team led the virtual public open house presentations via the Microsoft Teams platform. This platform allows attendees to view presentation materials, hear from Project representatives, and engage in a Question & Answer (Q&A) session using the platform's question dialogue portal. Attendees were also given a 'call-in only' feature, allowing those with limited internet access to participate by listening throughout the event. A recording of both sessions was captured and uploaded on the Project website.

## 6.4.2 Event Logistics

NEET Southwest, as coordinated by the Burns & McDonnell public involvement team, hosted two virtual public events on Tuesday, March 22, 2022; one morning session from 10:00-11:00 am CST and an evening session from 6:00-7:00 pm CST. During the initial event planning process, the Project team determined that having two sessions at varying times of day would better accommodate stakeholders' schedules and encourage participation. A total of 51 individuals joined the morning session, with an additional 13 people utilizing the call-in only feature. The evening session had 39 total attendees with an additional 25 on the call-in feature.

As discussed in Section 6.3.3.2, informational postcards describing the Project and advertising the virtual public open houses were mailed to landowners and elected officials approximately 2 weeks prior to the events. This information was also published in local newspapers (Section 6.3.3.3) and made available on the Project's website. Through these methods of invitation, the following is a breakdown of total registrants prior to the virtual open house.

Number of Registrants Source Newspaper Ads 10 Postcard Invitations 48 2

**Open House Registrants by Source** Table 6-3:

#### 6.4.3 Open House Presentation, Materials, and Engagement

Website

During the virtual open house sessions, the NEET Southwest team presenters included representatives from Development and Engineering & Construction who presented information on the following topics:

- Background on NEET
- Background Project Need
- Wolf Creek Blackberry 345-kV Transmission Line Project
- **Project Benefits**
- **Routing Considerations**
- Engineering Design and Construction Activities
- Right-Of-Way Easements
- **Anticipated Project Schedule**
- Operations and Maintenance
- **Q&A Session**

Along with the three presenters, the Q&A sessions also featured four additional subject matter experts representing areas of Land, Environmental, Operations, and General Counsel to provide better insight to landowners' potential questions. In total, there were 32 landowner questions received during the morning session and 33 questions during the evening session. The open house presentation and transcripts of both sessions, as well as a copy of the questions received during each event, can be found in Appendix E.

#### 6.4.4 **Open House Materials**

Information presented during the public meetings was also posted on the Project website, which allows landowners and other interested parties the opportunity to review this information if they were not able to attend the open houses. Recordings from both sessions were also uploaded to the Project website for those unable to attend the event. Copies of these materials can be found in Appendix C.

#### 6.4.5 Comments Collected

Comments and information obtained during the open houses was evaluated by the Project team and shared with the appropriate land agents to help formulate and deliver a response to the landowner. This content is being compiled in a manner that allows the Project team to assess public opinion, determine if Project modifications are needed and appropriate, and select a final route.

From these open house efforts, the Project team received two landowner inquiries regarding the Project route development and requesting a route modification. As with all other comments and questions received through the Project communication portals, these requests were evaluated by the Project team. A follow-up, in-person meeting was held with the landowners to fully understand the landowner's primary concerns and internal coordination to finalize the route in this area is on-going.

#### 6.5 Additional Outreach Activities

# 6.5.1 Ongoing Land Agent / Landowner Communications

In order to provide right-of-way services for the Project, NEET Southwest retained Doyle to organize a team of five land agents to identify parcel ownership and communicate with landowners about the Project. As part of this effort, Doyle has assigned each land agents approximately 60 individual property tracts of land in segments along the Project route to coordinate landowner outreach with.

The Project team began initial outreach through phone calls and door-to-door visits along the Proposed Route beginning in January 2022. The goal of this initial outreach was to introduce the land agent team, as well as educate landowners about the Project. During those initial outreach efforts, if land agents' first attempts to reach potentially affected landowners were not successful (e.g., the landowner was not home during visit or did not answer outreach phone calls,) the land agents mailed a basic postcard referencing the Project and including the land agent's contact information.

Since January, Project land agents have made contact with approximately 95% of the landowners along the Proposed Route and have received permission to perform surveys on roughly 60 miles of the Proposed Route. The team has also responded to hundreds of requests for information through the land agents in the field or the Project hotline. The land agents continue to work closely with landowners on a daily basis to coordinate surveys and address property-specific needs and concerns. Land agents have started initial easement negotiations with around 80% of affected landowners and anticipate that number reaching 100% by the end of 2022.

#### 7.0 PROPOSED ROUTE ADJUSTMENTS AND ONGOING SURVEYS

Since the selection of NEET Southwest by SPP in December of 2021, the team has continued to make data updates, to work with landowners, to perform additional studies / surveys, and to continue agency outreach activities. These Project efforts are described in the following sections and are ongoing but will end prior to the approval by KCC and MPSC.

# 7.1 Data Updates

The primary source of the data used in the routing analysis was aerial imagery from previous years. Aerial imagery was updated to use 2021 NAIP data in 2021 for the counties along the Proposed Route. Other digital data, such as roads, parcels, protected lands, threatened and endangered species, and wetlands, acquired from various federal and state agencies and sources, was also re-downloaded in 2021 if updates were available. These updates have allowed NEET Southwest to assess if any major changes have occurred related to resource data used in the route analysis described in Chapter 3.0.

#### 7.2 Stakeholder Considerations

Through the outreach plan described above, stakeholders have been steadily providing NEET Southwest with additional information. NEET Southwest continues to evaluate information coming in from stakeholders to reach agreeable solutions with stakeholders.

Following the open houses multiple requests for route changes were received from landowners. As a result of the landowner requests the project team has modified the location of 54 different structures.

NEET Southwest will continue to work with stakeholders until the Proposed Route is filed with the KCC.

## 7.2.1 Engineering Revisions

Prior to the open house NEET Southwest routing, environmental, and engineering teams investigated potential route adjustments to reduce overall line length and eliminate higher cost angle structures in 2022. These investigations led to eliminating points of inflection along the Proposed Route. There were four areas where PIs were removed to straighten the line, the majority of these PIs were minor angles and generally did not affect the overall alignment of the Proposed Route. The Proposed Route was also modified to avoid infrastructure associated with the recently constructed Jayhawk Wind Farm. The original route would have passed over the newly built substation for this wind farm; this change introduced three PIs into the final alignment.

## 7.2.2 Environmental Revisions

During detailed review of the Proposed Route, proposed pole placement was adjusted to avoid wetland impacts or archaeological sites identified during field surveys. These structure shifts generally do not impact the overall alignment of the Proposed Route as they typically can be shifted within the current alignment of the Proposed Route.

## 7.3 Additional Surveys / Studies

After the Proposed Route was identified, additional detailed surveys were undertaken to provide additional information related to potential impacts along the Proposed Route. Field work has been conducted on the following days to date:

- Wetland delineation and protected species habitat assessment field surveys: March 28 April 15,
   2022, as well as May 2 5, 2022
- Stick nest surveys: April 1, 2022
- Cultural surveys: March 28 April 1, 2022; April 11 15, 2022; and May 3, 2022
- Tribal field review: March 30 April 4, 2022
- Geotechnical Investigation: April 4, 2022 April 29, 2022
- Boundary and Utility Land Surveys: March 28, 2022 May 6, 2022

Additional surveys will be completed if necessary.

# 7.4 Agency Coordination

Agency outreach and coordination is ongoing on the Project. On April 18, 2022, letters were sent to the USFWS, MDC, and KDWP containing general Project information and requesting any species or habitat data related to threatened, endangered, proposed, and candidate species; eagles; protected habitats; bats; and conservation concern birds.

On April 19, 2022, representatives for each county were sent a letter containing general Project information and requesting information related to county road and ROW permitting, regulations, and agreements; county floodplain permitting; and county building / construction permitting.

Copies of these letters can be found in Appendix F.

#### 8.0 REFERENCES

**PUBLIC** 

- Avian Power Line Interaction Committee (APLIC). (2012). Reducing Avian Collisions with Power Lines: The State of the Art in 2012. Retrieved 28 December 2020 from https://www.aplic.org/uploads/files/15518/Reducing\_Avian\_Collisions\_2012watermarkLR.pdf.
- Bailey, Robert G. (1995). Description of the Ecoregions of the United States. 2nd ed. Misc. Publ. No. 1391 (rev.) 108 pp. Washington D.C.: USDA Forest Service
- Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. (1979). Classification of Wetlands and Deepwater Habitats of the United States. Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service. National Wetlands Inventory Home Page. Retrieved 25 February 2020 from <a href="http://www.fws.gov/wetlands/Documents/Classification-of-Wetlands-and-Deepwater-Habitats-of-the-United-States-2013.pdf">http://www.fws.gov/wetlands/Documents/Classification-of-Wetlands-and-Deepwater-Habitats-of-the-United-States-2013.pdf</a>.
- ESRI. (2016). ESRI Data & Maps. Retrieved 12 November 2018 from https://www.arcgis.com/home/group.html?id=24838c2d95e14dd18c25e9bad55a7f82#overview.
- ESRI. (2019a). USA Landmarks. Retrieved 12 November 2018 from https://www.arcgis.com/home/item.html?id=6ffa5cb05c3b4978bd96b8a4b416ffa6.
- ESRI. (2019b). USA Parks. Retrieved 12 November 2018 from https://www.arcgis.com/home/item.html?id=578968f975774d3fab79fe56c8c90941.
- Federal Aviation Administration (FAA). (2020). 28 Day National Airspace System Resource (NASR) Subscription. Retrieved 04 May 2020 from https://www.faa.gov/air\_traffic/flight\_info/aeronav/aero\_data/NASR\_Subscription/.
- Federal Communications Commission (FCC). (2018). Universal Licensing System Daily & Weekly Transaction Files. Retrieved 12 November 2018 from http://data.fcc.gov/download/license-view/fcc-license-view-data-csv-format.zip.
- Federal Emergency Management Agency (FEMA). (2018). FEMA Flood Map Service Center: Welcome! Retrieved 12 November 2018 from https://msc.fema.gov/portal/home.
- Great Plains Nature Center (Bob Gress and Dr. George D. Potts, editors). (2013). A Pocket Guide to Common Kansas Mammals, Second Edition. Retrieved 15 December 2020 from https://gpnc.org/wp-content/uploads/sites/32/2017/12/KSMammalsv2.pdf.
- Hitachi ABB Power Grid. (2016). Enterprise Software Velocity Suite. Retrieved 01 February 2016 from Digital Shapefiles.
- Kansas Department of Wildlife, Parks, and Tourism (KDWP). (2011). Frontier Military Scenic Byway. Retrieved 17 December 2020 from http://www.naturalkansas.org/frontier.htm.
- KDWP. (2020a). Threatened and Endangered (T&E) Species. Retrieved 15 December 2020 from https://ksoutdoors.com/Services/Threatened-and-Endangered-Wildlife/List-of-all-Kansas-Counties.

- KDWP. (2020b). Broadhead Skink. Retrieved 17 December 2020 from https://ksoutdoors.com/Services/Threatened-and-Endangered-Wildlife/All-Threatened-and-Endangered-Species/BROADHEAD-SKINK.
- KDWP. (2020c). Eastern Spotted Skunk. Retrieved 17 December 2020 from https://ksoutdoors.com/Services/Threatened-and-Endangered-Wildlife/All-Threatened-and-Endangered-Species/EASTERN-SPOTTED-SKUNK.
- KDWP. (2020d). Gray Bat. Retrieved 17 December 2020 from https://ksoutdoors.com/Services/Threatened-and-Endangered-Wildlife/All-Threatened-and-Endangered-Species/GRAY-BAT.
- Kansas Historical Society. (2018). Coal mining in southeast Kansas. Retrieved 16 December 2020 from https://www.kshs.org/kansapedia/coal-mining-in-southeast-kansas/19849.
- Missouri Department of Conservation (MDC). (2020a). Missouri Natural Heritage Program: Heritage Results for Barton County. Retrieved 15 December 2020 from https://mdc.mo.gov/property/responsible-construction/heritage-program/results/county/Barton.
- MDC. (2020b). Missouri Natural Heritage Program: Heritage Results for Jasper County. Retrieved 15 December 2020 from https://mdc.mo.gov/property/responsible-construction/heritage-program/results/county/Jasper.
- National Center for Education Statistics. (2017). Education Demographic and Geographic Estimates (EDGE) Open Data. Retrieved 12 November 2018 from https://data-nces.opendata.arcgis.com/search?groupIds=455147561fd3416daa180395fb4e9237.
- National Conservation Easement Database (NCED). (2018). NCED National Conservation Easement Database. Retrieved 12 November 2018 from https://www.conservationeasement.us/downloads.
- National Park Service (NPS). (2018). Karst Landscapes. Retrieved 18 December 2020 from https://www.nps.gov/subjects/caves/karst-landscapes.htm.
- Powell, William E. (1972). Former Mining Communities of the Cherokee-Crawford Coal Field of Southeastern Kansas. Retrieved 29 December 2020 from https://www.kshs.org/p/former-mining-communities-of-the-cherokee-crawford-coal-field/13222.
- Southwest Power Pool (SPP). (2019). 2019 Integrated Transmission Planning Assessment Report: SPP Engineering Version 1.0. Retrieved 12/17/20 from https://www.spp.org/documents/60937/2019%20itp%20report\_v1.0.pdf.
- U.S. Census Bureau. (2010). Decennial Census. Retrieved 12 November 2018 from https://data.census.gov/cedsci.
- U.S. Census Bureau. (2017). American Community Survey. Retrieved 12 November 2018 from https://data.census.gov/cedsci.
- U.S. Corps of Engineers (USACE). (no date). Recognizing Wetlands: An Informational Pamphlet. Retrieved 02 November 2020 from https://www.lrb.usace.army.mil/Portals/45/docs/regulatory/Wetlands/rw\_bro.pdf.

- U.S. Department of Agriculture National Agricultural Statistics Service (USDA NASS). (2017). Census of Agriculture. Retrieved 12 November 2018 from https://www.nass.usda.gov/Publications/AgCensus/2017/index.php.
- USDA Natural Resources Conservation Service (NRCS). (2018). Gridded National Soil Survey Geographic (gNATSGO) Database for Oklahoma. Retrieved 12 November 2018 from https://nrcs.app.box.com/v/soils.
- U.S. Department of Transportation Bureau of Transportation Statistics (USDOT). (2018). Rail GIS Datasets. Retrieved 12 November 2018 from https://data-usdot.opendata.arcgis.com/search?tags=Rail.
- U.S. Energy Information Administration (USEIA). (2018). MAPS: Layer Information for Interactive State Maps. Retrieved 12 November 2018 from https://www.eia.gov/maps/layer\_info-m.php.
- U.S. Fish and Wildlife Service (USFWS). (2003). Mead's Milkweed (Asclepias meadii) Recovery Plan. Retrieved 15 December 2020 from https://ecos.fws.gov/docs/recovery\_plan/030922b.pdf.
- USFWS. (2018). Download Seamless Wetlands Data. Retrieved 12 November 2018 from https://www.fws.gov/wetlands/data/data-download.html.
- USFWS. (2019a). Gray Bat (Myotis grisescens) Fact Sheet. Retrieved 15 December 2020 from https://www.fws.gov/midwest/endangered/mammals/grbat\_fc.html.
- USFWS. (2019b). Indiana Bat (Myotis Sodalis) Fact Sheet. Retrieved 15 December 2020 from https://www.fws.gov/midwest/Endangered/mammals/inba/inbafctsht.html.
- USFWS. (2019c). Fact Sheet: Neosho Madtom (Noturus placidus). Retrieved 15 December 2020 from https://www.fws.gov/midwest/endangered/fishes/neosh fc.html.
- USFWS. (2019d). Fact Sheet Ozark Cavefish (Amblyopsis rosae). Retrieved 15 December 2020 from https://www.fws.gov/midwest/endangered/fishes/ozkcf\_fc.html#:~:text=Appearance%20%2D%2 0The%20Ozark%20cavefish%20is,in%20cave%20streams%20and%20springs.&text=Range%20%2D%20The%20cavefish%20can%20be,Arkansas%2C%20Missouri%2C%20and%20Oklahoma ...
- USFWS. (2019e). Mead's Milkweed (Asclepias meadii) Fact Sheet. Retrieved 20 December 2020 from https://www.fws.gov/midwest/endangered/plants/meads/meadsmil.html.
- USFWS. (2020a). Environmental Conservation Online System. Retrieved 29 April 2020 from http://ecos.fws.gov/ipac.
- USFWS. (2020b). Northern Long-Eared Bat Myotis septentrionalis. Retrieved 15 December 2020 from https://www.fws.gov/midwest/endangered/mammals/nleb/nlebFactSheet.html.
- USFWS. (2020c). ECOS Environmental Conservation Online System: Neosho Mucket (Lampsilis rafinesqueana). Retrieved 15 December 2020 from https://ecos.fws.gov/ecp/species/3788.
- USFWS. (2020d). ECOS Environmental Conservation Online System: Rabbitsfoot (Quadrula cylindrica cylindrica). Retrieved 15 December 2020 from https://ecos.fws.gov/ecp/species/5165.

- U.S. Forest Service (USFS). (2015). Ecosystem Provinces. Retrieved 12 November 2018 from https://www.fs.fed.us/land/ecosysmgmt/colorimagemap/ecoreg1\_provinces.html.
- U.S. Geological Survey (USGS). (2015). USGS Water Use Data for the Nation. Retrieved 15 December 2020 from https://waterdata.usgs.gov/nwis/wu.
- USGS. (2017). Aquifers: Map of the Principal Aquifers of the United States. Retrieved 12 November 2018 from https://water.usgs.gov/ogw/aquifer/map.html.
- USGS. (2018a). National Hydrography Dataset. Retrieved 12 November 2018 from https://www.usgs.gov/core-science-systems/ngp/national-hydrography/access-national-hydrography-products.
- USGS. (2018b). Gap Analysis Project (GAP), 2018, Protected Areas Database of the United States (PADUS). Retrieved 12 November 2018 from https://www.usgs.gov/core-science-systems/science-analytics-and-synthesis/gap/science/pad-us-data-download?qt-science\_center\_objects=0#qt-science\_center\_objects.
- USGS. (2020a). National Elevation Dataset Digital Elevation Model. Retrieved 01 March 2020 from https://datagateway.nrcs.usda.gov/.
- USGS. (2020b). U.S. Board on Geographic Names: Download GNIS Data. Retrieved 12 November 2018 from https://www.usgs.gov/core-science-systems/ngp/board-on-geographic-names/download-gnis-data.

APPENDIX A - ROUTE DATA

|          |   |                    |                 |                           |                        |                      | Length Not           |                    |                       |                       | Length                   |                                |                     |                       |                    | Gray Bat       |                                  | Eastern                    | Broadhead               |
|----------|---|--------------------|-----------------|---------------------------|------------------------|----------------------|----------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------------|---------------------|-----------------------|--------------------|----------------|----------------------------------|----------------------------|-------------------------|
|          |   |                    |                 |                           |                        | Other                | Along Existing       | Length Not         | Oil/Gas               | Number of             | Through                  |                                |                     |                       |                    | Critical       | Woodland within                  |                            | Skink State             |
|          |   | Total<br>Length    | Total<br>Length | Angles Over 30<br>Degrees | O Highway<br>Crossings | Roadway<br>Crossings | Transmission<br>Line | Along<br>Roads     | Wells/Tanks<br>in ROW | Pipeline<br>Crossings | Previously<br>Mined Area | Transmission<br>Line Crossings | Stream<br>Crossings | Waterbodies<br>in ROW | Wetlands in<br>ROW | Habitat in ROW | Gray Bat Critical Habitat in ROW | Critical Habitat<br>in ROW | Critical Habitat in ROW |
| Route    | Segments  | (ft)               | (mi)            | (count)                   | (count)                | (count)              | (feet)               | (feet)             | (count)               | (count)               | (feet)                   | (count)                        | (count)             | (acres)               | (acres)            | (acres)        | (acres)                          | (acres)                    | (acres)                 |
| 1        | 1,2,8,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 606,040            | 114.8           | 22                        | 11                     | 103                  | 501,280              | 502,580            | 0                     | 14                    | 69,380                   | 9                              | 182                 | 13.8                  | 46.6               | 0.0            | 0.0                              | 205.9                      | 246.1                   |
| 3        | 1,2,8,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,2,8,19,25,26,27,29,37,38A,45,46,38E,42,44                                     | 613,910<br>601,140 | 116.3<br>113.9  | 24<br>25                  | 11<br>11               | 106<br>104           | 509,150<br>496,380   | 503,030<br>500,030 | 0                     | 14<br>14              | 65,450<br>59,730         | 9                              | 183<br>184          | 11.2<br>11.2          | 47.2<br>41.9       | 0.0<br>71.6    | 0.0<br>3.4                       | 205.9<br>205.9             | 246.1<br>242.0          |
| 4        | 1,2,8,19,25,26,27,29,37,38A,45,47,41B,42,44   | 604,100            | 114.4           | 25                        | 11                     | 104                  | 499,340              | 502,990            | 0                     | 14                    | 59,890                   | 11                             | 179                 | 12                    | 42.4               | 141.0          | 11.6                             | 205.9                      | 250.3                   |
| 5        | 1,2,8,19,25,26,27,29,37,39,41A,41B,42,44  | 599,830            | 113.6           | 23                        | 11                     | 109                  | 495,070              | 476,020            | 0                     | 14                    | 61,990                   | 11                             | 177                 | 13.9                  | 43.2               | 146.5          | 21.6                             | 205.9                      | 257.6                   |
| 6        | 1,2,8,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 571,840            | 108.3           | 18                        | 13                     | 103                  | 388,070              | 476,360            | 2                     | 14                    | 63,500                   | 9                              | 195                 | 16.5                  | 44.2               | 0.0            | 0.0                              | 205.9                      | 115.0                   |
| 7 8      | 1,2,8,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44<br>1,2,8,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44                         | 579,710<br>566,940 | 109.8<br>107.4  | 20                        | 13<br>13               | 106<br>104           | 395,940<br>383,170   | 476,800<br>473,810 | 2 2                   | 14<br>14              | 59,570<br>53,860         | 9                              | 196<br>197          | 13.9<br>13.9          | 44.7<br>39.4       | 0.0<br>71.6    | 0.0<br>3.4                       | 205.9<br>205.9             | 115.0<br>110.9          |
| 9        | 1,2,8,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 569,900            | 107.4           | 21                        | 13                     | 104                  | 386,130              | 476,760            | 2                     | 14                    | 54,020                   | 11                             | 192                 | 14.7                  | 39.9               | 141.0          | 11.6                             | 205.9                      | 119.2                   |
| 10       | 1,2,8,19,25,26,27,30,31,36,37,39,41A,41B,42,44  | 565,630            | 107.1           | 19                        | 13                     | 109                  | 381,860              | 449,800            | 2                     | 14                    | 56,110                   | 11                             | 190                 | 16.6                  | 40.7               | 146.5          | 21.6                             | 205.9                      | 126.5                   |
| 11       | 1,2,8,19,25,26,27,30,31,40,41A,41B,42,44  | 557,100            | 105.5           | 18                        | 14                     | 104                  | 358,590              | 451,360            | 2                     | 16                    | 54,060                   | 11                             | 191                 | 13.4                  | 35.4               | 201.4          | 32.8                             | 205.9                      | 124.9                   |
| 12       | 1,2,8,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44<br>1,2,8,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44             | 587,920<br>595,800 | 111.3<br>112.8  | 19<br>21                  | 13<br>13               | 100<br>103           | 477,550<br>485,420   | 492,440<br>492,890 | 0                     | 16<br>16              | 63,500<br>59,570         | 11<br>11                       | 171<br>172          | 13.4<br>10.8          | 42.1<br>42.6       | 0.0            | 0.0                              | 205.9<br>205.9             | 139.2<br>139.2          |
| 14       | 1,2,8,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 583,030            | 110.4           | 22                        | 13                     | 101                  | 472,650              | 489,890            | 0                     | 16                    | 53,860                   | 11                             | 173                 | 10.8                  | 37.4               | 71.6           | 3.4                              | 205.9                      | 135.1                   |
| 15       | 1,2,8,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 585,980            | 111             | 22                        | 13                     | 103                  | 475,610              | 492,850            | 0                     | 16                    | 54,020                   | 13                             | 168                 | 11.6                  | 37.9               | 141.0          | 11.6                             | 205.9                      | 143.4                   |
| 16       | 1,2,8,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44   | 581,710            | 110.2           | 20                        | 13                     | 106                  | 471,330              | 465,890            | 0                     | 16                    | 56,110                   | 13                             | 166                 | 13.5                  | 38.6               | 146.5          | 21.6                             | 205.9                      | 150.7                   |
| 17       | 1,2,8,19,25,26,27,30,32,34,40,41A,41B,42,44   | 573,190            | 108.6           | 21                        | 14                     | 101                  | 448,060              | 467,440            | 0                     | 18                    | 54,060                   | 13                             | 167                 | 10.3                  | 33.3               | 201.4          | 32.8                             | 205.9                      | 149.1                   |
| 18<br>19 | 1,2,8,19,25,26,27,30,32,35,43,44<br>1,2,8,19,25,26,28,33,43,44  | 568,810<br>575,720 | 107.7<br>109    | 19<br>18                  | 14<br>14               | 102<br>104           | 473,150<br>438,190   | 475,320<br>482,230 | 0                     | 15<br>15              | 20,220<br>20,220         | 12<br>12                       | 168<br>186          | 8.7<br>13.1           | 32.5<br>38         | 88.3<br>88.3   | 25.0<br>25.0                     | 205.9<br>205.9             | 137.5<br>148.7          |
| 20       | 1,2,9,12,13,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 556,820            | 105.5           | 20                        | 10                     | 99                   | 502,500              | 517,740            | 1                     | 10                    | 69,380                   | 10                             | 168                 | 13.5                  | 48.1               | 0.0            | 0.0                              | 65.7                       | 246.1                   |
| 21       | 1,2,9,12,13,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44  | 564,700            | 106.9           | 22                        | 10                     | 102                  | 510,380              | 518,190            | 1                     | 10                    | 65,450                   | 10                             | 169                 | 10.9                  | 48.6               | 0.0            | 0.0                              | 65.7                       | 246.1                   |
| 22       | 1,2,9,12,13,17,18,19,25,26,27,29,37,38A,45,46,38E,42,44   | 551,930            | 104.5           | 23                        | 10                     | 100                  | 497,610              | 515,190            | 1                     | 10                    | 59,730                   | 10                             | 170                 | 10.9                  | 43.4               | 71.6           | 3.4                              | 65.7                       | 242.0                   |
| 23       | 1,2,9,12,13,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 554,880<br>550,610 | 105.1<br>104.3  | 23                        | 10<br>10               | 102<br>105           | 500,560<br>496,290   | 518,150<br>491,190 | 1                     | 10                    | 59,890<br>61,990         | 12                             | 165<br>163          | 11.7<br>13.6          | 43.9<br>44.6       | 141.0<br>146.5 | 11.6<br>21.6                     | 65.7<br>65.7               | 250.3<br>257.6          |
| 25       | 1,2,9,12,13,17,18,19,25,26,27,29,37,39,41A,41B,42,44<br>1,2,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44         | 522,620            | 99              | 21<br>16                  | 12                     | 99                   | 389,290              | 491,190            | 3                     | 10<br>10              | 63,500                   | 10                             | 181                 | 16.2                  | 45.6               | 0.0            | 0.0                              | 65.7                       | 115.0                   |
| 26       | 1,2,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 530,490            | 100.5           | 18                        | 12                     | 102                  | 397,170              | 491,970            | 3                     | 10                    | 59,570                   | 10                             | 182                 | 13.6                  | 46.2               | 0.0            | 0.0                              | 65.7                       | 115.0                   |
| 27       | 1,2,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44   | 517,720            | 98.1            | 19                        | 12                     | 100                  | 384,400              | 488,970            | 3                     | 10                    | 53,860                   | 10                             | 183                 | 13.6                  | 40.9               | 71.6           | 3.4                              | 65.7                       | 110.9                   |
| 28       | 1,2,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 520,680            | 98.6            | 19                        | 12                     | 102                  | 387,350              | 491,930            | 3                     | 10                    | 54,020                   | 12                             | 178                 | 14.4                  | 41.4               | 141.0          | 11.6                             | 65.7                       | 119.2                   |
| 29<br>30 | 1,2,9,12,13,17,18,19,25,26,27,30,31,36,37,39,41A,41B,42,44<br>1,2,9,12,13,17,18,19,25,26,27,30,31,40,41A,41B,42,44                  | 516,410<br>507,890 | 97.8<br>96.2    | 17<br>16                  | 12<br>13               | 105<br>100           | 383,080<br>359,810   | 464,960<br>466,520 | 3                     | 10<br>12              | 56,110<br>54,060         | 12<br>12                       | 176<br>177          | 16.3<br>13.1          | 42.1<br>36.8       | 146.5<br>201.4 | 21.6<br>32.8                     | 65.7<br>65.7               | 126.5<br>124.9          |
| 31       | 1,2,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 538,710            | 102             | 17                        | 12                     | 96                   | 478,770              | 507,610            | 1                     | 12                    | 63,500                   | 12                             | 157                 | 13.1                  | 43.6               | 0.0            | 0.0                              | 65.7                       | 139.2                   |
| 32       | 1,2,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 546,580            | 103.5           | 19                        | 12                     | 99                   | 486,640              | 508,050            | 1                     | 12                    | 59,570                   | 12                             | 158                 | 10.5                  | 44.1               | 0.0            | 0.0                              | 65.7                       | 139.2                   |
| 33       | 1,2,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 533,810            | 101.1           | 20                        | 12                     | 97                   | 473,870              | 505,050            | 1                     | 12                    | 53,860                   | 12                             | 159                 | 10.5                  | 38.8               | 71.6           | 3.4                              | 65.7                       | 135.1                   |
| 34       | 1,2,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 536,770            | 101.7           | 20                        | 12                     | 99                   | 476,830              | 508,010            | 1                     | 12                    | 54,020                   | 14                             | 154                 | 11.3                  | 39.4               | 141.0          | 11.6                             | 65.7<br>65.7               | 143.4<br>150.7          |
| 35<br>36 | 1,2,9,12,13,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,2,9,12,13,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44            | 532,500<br>523,970 | 100.9<br>99.2   | 18<br>19                  | 12<br>13               | 102<br>97            | 472,550<br>449,280   | 481,050<br>482,610 | 1                     | 12<br>14              | 56,110<br>54,060         | 14<br>14                       | 152<br>153          | 13.2<br>10            | 40.1<br>34.8       | 146.5<br>201.4 | 21.6<br>32.8                     | 65.7                       | 149.1                   |
| 37       | 1,2,9,12,13,17,18,19,25,26,27,30,32,35,43,44  | 519,590            | 98.4            | 17                        | 13                     | 98                   | 474,370              | 490,490            | 1                     | 11                    | 20,220                   | 13                             | 154                 | 8.5                   | 33.9               | 88.3           | 25.0                             | 65.7                       | 137.5                   |
| 38       | 1,2,9,12,13,17,18,19,25,26,28,33,43,44  | 526,500            | 99.7            | 16                        | 13                     | 100                  | 439,410              | 497,400            | 1                     | 11                    | 20,220                   | 13                             | 172                 | 12.9                  | 39.4               | 88.3           | 25.0                             | 65.7                       | 148.7                   |
| 39       | 1,2,9,12,13,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 539,850            | 102.2           | 21                        | 10                     | 99                   | 486,060              | 519,230            | 1                     | 10                    | 69,380                   | 10                             | 153                 | 13.7                  | 46.7               | 0.0            | 0.0                              | 65.7                       | 212.1                   |
| 40<br>41 | 1,2,9,12,13,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,2,9,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44                   | 547,720<br>534,950 | 103.7<br>101.3  | 23<br>24                  | 10<br>10               | 102<br>100           | 493,930<br>481,160   | 519,670<br>516,670 | 1 1                   | 10<br>10              | 65,450<br>59,730         | 10<br>10                       | 154<br>155          | 11.1<br>11.1          | 47.2<br>41.9       | 0.0<br>71.6    | 0.0<br>3.4                       | 65.7<br>65.7               | 212.1<br>208.0          |
| 42       | 1,2,9,12,13,17,20,23,26,27,29,37,36A,45,47,41B,42,44  | 537,910            | 101.9           | 24                        | 10                     | 100                  | 484,120              | 519,630            | 1                     | 10                    | 59,890                   | 12                             | 150                 | 11.1                  | 42.5               | 141.0          | 11.6                             | 65.7                       | 216.3                   |
| 43       | 1,2,9,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44   | 533,640            | 101.1           | 22                        | 10                     | 105                  | 479,850              | 492,670            | 1                     | 10                    | 61,990                   | 12                             | 148                 | 13.8                  | 43.2               | 146.5          | 21.6                             | 65.7                       | 223.6                   |
| 44       | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 505,650            | 95.8            | 17                        | 12                     | 99                   | 372,850              | 493,000            | 3                     | 10                    | 63,500                   | 10                             | 166                 | 16.4                  | 44.2               | 0.0            | 0.0                              | 65.7                       | 81.0                    |
| 45       | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 513,520            | 97.3            | 19<br>20                  | 12                     | 102                  | 380,720              | 493,450            | 3                     | 10                    | 59,570                   | 10                             | 167                 | 13.8                  | 44.7               | 0.0            | 0.0                              | 65.7<br>65.7               | 81.0                    |
| 46<br>47 | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44<br>1,2,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44            | 500,750<br>503,710 | 94.8<br>95.4    | 20                        | 12<br>12               | 100<br>102           | 367,950<br>370,910   | 490,450<br>493,410 | 3                     | 10<br>10              | 53,860<br>54,020         | 10<br>12                       | 168<br>163          | 13.8<br>14.6          | 39.5<br>40         | 71.6<br>141.0  | 3.4<br>11.6                      | 65.7                       | 76.9<br>85.2            |
| 48       | 1,2,9,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44   | 499,440            | 94.6            | 18                        | 12                     | 105                  | 366,640              | 466,450            | 3                     | 10                    | 56,110                   | 12                             | 161                 | 16.5                  | 40.7               | 146.5          | 21.6                             | 65.7                       | 92.5                    |
| 49       | 1,2,9,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44   | 490,910            | 93              | 17                        | 13                     | 100                  | 343,360              | 468,000            | 3                     | 12                    | 54,060                   | 12                             | 162                 | 13.3                  | 35.4               | 201.4          | 32.8                             | 65.7                       | 90.9                    |
| 50       | 1,2,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 521,730            | 98.8            | 18                        | 12                     | 96                   | 462,320              | 509,090            | 1                     | 12                    | 63,500                   | 12                             | 142                 | 13.4                  | 42.2               | 0.0            | 0.0                              | 65.7                       | 105.2                   |
| 51<br>52 | 1,2,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1,2,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 | 529,610<br>516,840 | 100.3<br>97.9   | 20                        | 12<br>12               | 99<br>97             | 470,200<br>457,430   | 509,540<br>506,540 | 1 1                   | 12<br>12              | 59,570<br>53,860         | 12<br>12                       | 143<br>144          | 10.8<br>10.7          | 42.7<br>37.4       | 0.0<br>71.6    | 0.0<br>3.4                       | 65.7<br>65.7               | 105.2<br>101.1          |
| 53       | 1,2,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 519,790            | 98.4            | 21                        | 12                     | 99                   | 460,380              | 509,500            | 1                     | 12                    | 54,020                   | 14                             | 139                 | 11.6                  | 38                 | 141.0          | 11.6                             | 65.7                       | 109.4                   |
| 54       | 1,2,9,12,13,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 515,520            | 97.6            | 19                        | 12                     | 102                  | 456,110              | 482,530            | 1                     | 12                    | 56,110                   | 14                             | 137                 | 13.4                  | 38.7               | 146.5          | 21.6                             | 65.7                       | 116.7                   |
| 55       | 1,2,9,12,13,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 507,000            | 96              | 20                        | 13                     | 97                   | 432,840              | 484,090            | 1                     | 14                    | 54,060                   | 14                             | 138                 | 10.2                  | 33.4               | 201.4          | 32.8                             | 65.7                       | 115.1                   |
| 56<br>57 | 1,2,9,12,13,17,20,23,26,27,30,32,35,43,44<br>1,2,9,12,13,17,20,23,26,28,33,43,44  | 502,620<br>509,530 | 95.2<br>96.5    | 18<br>17                  | 13<br>13               | 98<br>100            | 457,930<br>422,970   | 491,970<br>498,880 | 1 1                   | 11<br>11              | 20,220<br>20,220         | 13<br>13                       | 139<br>157          | 8.7<br>13.1           | 32.5<br>38         | 88.3<br>88.3   | 25.0<br>25.0                     | 65.7<br>65.7               | 103.5<br>114.7          |
| 58       | 1,2,9,12,13,17,20,23,26,28,33,43,44<br>1,2,9,12,13,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44                                      | 537,070            | 101.7           | 18                        | 10                     | 99                   | 484,930              | 516,450            | 1                     | 10                    | 69,380                   | 10                             | 157                 | 13.1                  | 46.4               | 0.0            | 0.0                              | 65.7                       | 210.8                   |
| 59       | 1,2,9,12,13,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44  | 544,950            | 103.2           | 20                        | 10                     | 102                  | 492,800              | 516,900            | 1                     | 10                    | 65,450                   | 10                             | 154                 | 11.1                  | 46.9               | 0.0            | 0.0                              | 65.7                       | 210.8                   |
| 60       | 1,2,9,12,13,17,20,24,27,29,37,38A,45,46,38E,42,44   | 532,180            | 100.8           | 21                        | 10                     | 100                  | 480,030              | 513,900            | 1                     | 10                    | 59,730                   | 10                             | 155                 | 11.1                  | 41.6               | 71.6           | 3.4                              | 65.7                       | 206.7                   |
| 61       | 1,2,9,12,13,17,20,24,27,29,37,38A,45,47,41B,42,44   | 535,130            | 101.4           | 21                        | 10                     | 102                  | 482,990              | 516,860            | 1                     | 10                    | 59,890                   | 12                             | 150                 | 11.9                  | 42.2               | 141.0          | 11.6                             | 65.7                       | 215.0                   |
| 62<br>63 | 1,2,9,12,13,17,20,24,27,29,37,39,41A,41B,42,44<br>1,2,9,12,13,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44                     | 530,860<br>502,870 | 100.5<br>95.2   | 19<br>14                  | 10<br>12               | 105<br>99            | 478,720<br>371,720   | 489,900<br>490,230 | 3                     | 10<br>10              | 61,990<br>63,500         | 12<br>10                       | 148<br>166          | 13.8<br>16.4          | 42.9<br>43.9       | 146.5<br>0.0   | 21.6<br>0.0                      | 65.7<br>65.7               | 222.3<br>79.7           |
| 0.5      | 44,44,400,000,000,000,000,000,000,000,0   | JUZ,070            | 3J.Z            | 14                        | 14                     | 99                   | 3/1,/20              | 730,230            | , ,                   | 10                    | 03,300                   | 10                             | 100                 | 10.4                  | 43.3               | 0.0            | 0.0                              | 05.7                       | 13.1                    |

|            |   |                    |                 |                           |           |                      | Length Not           |                    |                       |                       | Length                   |                                |                     |                       |                    | Gray Bat       |                                  | Eastern                    | Broadhead                  |
|------------|---|--------------------|-----------------|---------------------------|-----------|----------------------|----------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------------|---------------------|-----------------------|--------------------|----------------|----------------------------------|----------------------------|----------------------------|
|            |   |                    |                 |                           |           | Other                | Along Existing       | Length Not         | Oil/Gas               | Number of             | Through                  |                                |                     |                       |                    | Critical       | Woodland within                  | Spotted Skunk              | Skink State                |
|            |   | Total<br>Length    | Total<br>Length | Angles Over 30<br>Degrees | Crossings | Roadway<br>Crossings | Transmission<br>Line | Along<br>Roads     | Wells/Tanks<br>in ROW | Pipeline<br>Crossings | Previously<br>Mined Area | Transmission<br>Line Crossings | Stream<br>Crossings | Waterbodies<br>in ROW | Wetlands in<br>ROW | Habitat in ROW | Gray Bat Critical Habitat in ROW | Critical Habitat<br>in ROW | Critical Habitat<br>in ROW |
| Route      | Segments  | (ft)               | (mi)            | (count)                   | (count)   | (count)              | (feet)               | (feet)             | (count)               | (count)               | (feet)                   | (count)                        | (count)             | (acres)               | (acres)            | (acres)        | (acres)                          | (acres)                    | (acres)                    |
| 64         | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 510,750            | 96.7            | 16                        | 12        | 102                  | 379,590              | 490,670            | 3                     | 10                    | 59,570                   | 10                             | 167                 | 13.8                  | 44.4               | 0.0            | 0.0                              | 65.7                       | 79.7                       |
| 65<br>66   | 1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44<br>1,2,9,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44    | 497,980<br>500,930 | 94.3<br>94.9    | 17<br>17                  | 12<br>12  | 100<br>102           | 366,820<br>369,780   | 487,680<br>490,640 | 3                     | 10<br>10              | 53,860<br>54,020         | 10<br>12                       | 168<br>163          | 13.8<br>14.6          | 39.2<br>39.7       | 71.6<br>141.0  | 3.4<br>11.6                      | 65.7<br>65.7               | 75.6<br>83.9               |
| 67         | 1,2,9,12,13,17,20,24,27,30,31,36,37,39,41A,41B,42,44  | 496,660            | 94.9            | 15                        | 12        | 102                  | 365,510              | 463,670            | 3                     | 10                    | 56,110                   | 12                             | 161                 | 16.5                  | 40.4               | 141.0          | 21.6                             | 65.7                       | 91.2                       |
| 68         | 1,2,9,12,13,17,20,24,27,30,31,40,41A,41B,42,44  | 488,140            | 92.5            | 14                        | 13        | 100                  | 342,230              | 465,230            | 3                     | 12                    | 54,060                   | 12                             | 162                 | 13.3                  | 35.1               | 201.4          | 32.8                             | 65.7                       | 89.6                       |
| 69         | 1,2,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 518,960            | 98.3            | 15                        | 12        | 96                   | 461,190              | 506,320            | 1                     | 12                    | 63,500                   | 12                             | 142                 | 13.4                  | 41.9               | 0.0            | 0.0                              | 65.7                       | 103.9                      |
| 70         | 1,2,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 526,830            | 99.8            | 17                        | 12        | 99                   | 469,060              | 506,760            | 1                     | 12                    | 59,570                   | 12                             | 143                 | 10.8                  | 42.4               | 0.0            | 0.0                              | 65.7                       | 103.9                      |
| 71<br>72   | 1,2,9,12,13,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44  | 514,060<br>517,020 | 97.4<br>97.9    | 18<br>18                  | 12<br>12  | 97<br>99             | 456,290<br>459,250   | 503,760<br>506,720 | 1                     | 12<br>12              | 53,860<br>54,020         | 12<br>14                       | 144<br>139          | 10.7<br>11.6          | 37.1<br>37.6       | 71.6<br>141.0  | 3.4<br>11.6                      | 65.7<br>65.7               | 99.8<br>108.1              |
| 73         | 1,2,9,12,13,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,2,9,12,13,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44 | 517,020            | 97.9            | 16                        | 12        | 102                  | 459,250<br>454,980   | 479,760            | 1                     | 12                    | 56,110                   | 14                             | 139                 | 13.4                  | 38.4               | 141.0          | 21.6                             | 65.7                       | 115.4                      |
| 74         | 1,2,9,12,13,17,20,24,27,30,32,34,40,41A,41B,42,44   | 504,220            | 95.5            | 17                        | 13        | 97                   | 431,710              | 481,320            | 1                     | 14                    | 54,060                   | 14                             | 138                 | 10.2                  | 33.1               | 201.4          | 32.8                             | 65.7                       | 113.8                      |
| 75         | 1,2,9,12,13,17,20,24,27,30,32,35,43,44  | 499,840            | 94.7            | 15                        | 13        | 98                   | 456,800              | 489,200            | 1                     | 11                    | 20,220                   | 13                             | 139                 | 8.7                   | 32.2               | 88.3           | 25.0                             | 65.7                       | 102.2                      |
| 76         | 1,2,9,12,13,17,20,24,28,33,43,44  | 506,750            | 96              | 16                        | 13        | 100                  | 421,840              | 496,110            | 1                     | 11                    | 20,220                   | 13                             | 157                 | 13.1                  | 37.7               | 88.3           | 25.0                             | 65.7                       | 113.5                      |
| 77         | 1,2,9,12,14,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 554,190            | 105             | 21                        | 10        | 100                  | 530,700              | 532,980            | 1                     | 10                    | 69,380                   | 10                             | 156                 | 15.1                  | 47.1               | 0.0            | 0.0                              | 65.7                       | 215.1                      |
| 78<br>79   | 1,2,9,12,14,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,2,9,12,14,16,21,23,26,27,29,37,38A,45,46,38E,42,44     | 562,060<br>549,290 | 106.5<br>104    | 23<br>24                  | 10<br>10  | 103<br>101           | 538,570<br>525,800   | 533,430<br>530,430 | 1 1                   | 10<br>10              | 65,450<br>59,730         | 10<br>10                       | 157<br>158          | 12.5<br>12.5          | 47.7<br>42.4       | 0.0<br>71.6    | 0.0<br>3.4                       | 65.7<br>65.7               | 215.1<br>211.0             |
| 80         | 1,2,9,12,14,16,21,23,26,27,29,37,38A,45,47,41B,42,44  | 552,250            | 104.6           | 24                        | 10        | 103                  | 528,760              | 533,390            | 1                     | 10                    | 59,890                   | 12                             | 153                 | 13.3                  | 42.4               | 141.0          | 11.6                             | 65.7                       | 219.3                      |
| 81         | 1,2,9,12,14,16,21,23,26,27,29,37,39,41A,41B,42,44   | 547,980            | 103.8           | 22                        | 10        | 106                  | 524,490              | 506,420            | 1                     | 10                    | 61,990                   | 12                             | 151                 | 15.2                  | 43.7               | 146.5          | 21.6                             | 65.7                       | 226.6                      |
| 82         | 1,2,9,12,14,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 519,990            | 98.5            | 17                        | 12        | 100                  | 417,490              | 506,760            | 3                     | 10                    | 63,500                   | 10                             | 169                 | 17.8                  | 44.6               | 0.0            | 0.0                              | 65.7                       | 83.9                       |
| 83         | 1,2,9,12,14,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 527,860            | 100             | 19                        | 12        | 103                  | 425,360              | 507,200            | 3                     | 10                    | 59,570                   | 10                             | 170                 | 15.2                  | 45.2               | 0.0            | 0.0                              | 65.7                       | 83.9                       |
| 84         | 1,2,9,12,14,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 515,090            | 97.6            | 20                        | 12        | 101                  | 412,590<br>415,550   | 504,210            | 3                     | 10<br>10              | 53,860                   | 10                             | 171                 | 15.2                  | 39.9               | 71.6           | 3.4                              | 65.7<br>65.7               | 79.8<br>88.2               |
| 85<br>86   | 1,2,9,12,14,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,2,9,12,14,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 | 518,050<br>513,770 | 98.1<br>97.3    | 18                        | 12<br>12  | 103<br>106           | 415,550              | 507,160<br>480,200 | 3                     | 10                    | 54,020<br>56,110         | 12<br>12                       | 166<br>164          | 16<br>17.9            | 40.4<br>41.2       | 141.0<br>146.5 | 11.6<br>21.6                     | 65.7                       | 95.4                       |
| 87         | 1,2,9,12,14,16,21,23,26,27,30,31,40,41A,41B,42,44   | 505,250            | 95.7            | 17                        | 13        | 101                  | 388,000              | 481,760            | 3                     | 12                    | 54,060                   | 12                             | 165                 | 14.7                  | 35.9               | 201.4          | 32.8                             | 65.7                       | 93.9                       |
| 88         | 1,2,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 536,070            | 101.5           | 18                        | 12        | 97                   | 506,960              | 522,840            | 1                     | 12                    | 63,500                   | 12                             | 145                 | 14.7                  | 42.6               | 0.0            | 0.0                              | 65.7                       | 108.1                      |
| 89         | 1,2,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 543,950            | 103             | 20                        | 12        | 100                  | 514,830              | 523,290            | 1                     | 12                    | 59,570                   | 12                             | 146                 | 12.1                  | 43.1               | 0.0            | 0.0                              | 65.7                       | 108.1                      |
| 90         | 1,2,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44   | 531,180            | 100.6           | 21                        | 12        | 98                   | 502,060              | 520,290            | 1                     | 12                    | 53,860                   | 12                             | 147                 | 12.1                  | 37.9               | 71.6           | 3.4                              | 65.7                       | 104.0                      |
| 91         | 1,2,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 534,130            | 101.2           | 21                        | 12        | 100                  | 505,020              | 523,250            | 1                     | 12                    | 54,020                   | 14                             | 142<br>140          | 12.9                  | 38.4               | 141.0          | 11.6                             | 65.7                       | 112.4                      |
| 92<br>93   | 1,2,9,12,14,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,2,9,12,14,16,21,23,26,27,30,32,34,40,41A,41B,42,44    | 529,860<br>521,340 | 100.4<br>98.7   | 19<br>20                  | 12<br>13  | 103<br>98            | 500,750<br>477,480   | 496,290<br>497,840 | 1                     | 12<br>14              | 56,110<br>54,060         | 14<br>14                       | 140                 | 14.8<br>11.6          | 39.1<br>33.8       | 146.5<br>201.4 | 21.6<br>32.8                     | 65.7<br>65.7               | 119.6<br>118.1             |
| 94         | 1,2,9,12,14,16,21,23,26,27,30,32,35,43,44   | 516,960            | 97.9            | 18                        | 13        | 99                   | 502,560              | 505,720            | 1                     | 11                    | 20,220                   | 13                             | 142                 | 10                    | 33                 | 88.3           | 25.0                             | 65.7                       | 106.5                      |
| 95         | 1,2,9,12,14,16,21,23,26,28,33,43,44   | 523,870            | 99.2            | 17                        | 13        | 101                  | 467,610              | 512,630            | 1                     | 11                    | 20,220                   | 13                             | 160                 | 14.4                  | 38.5               | 88.3           | 25.0                             | 65.7                       | 117.7                      |
| 96         | 1,2,9,12,14,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44   | 551,410            | 104.4           | 20                        | 10        | 100                  | 529,570              | 530,210            | 1                     | 10                    | 69,380                   | 10                             | 156                 | 15.1                  | 46.8               | 0.0            | 0.0                              | 65.7                       | 213.8                      |
| 97         | 1,2,9,12,14,16,21,24,27,29,37,38A,38B,48,38D,38E,42,44  | 559,290            | 105.9           | 22                        | 10        | 103                  | 537,440              | 530,650            | 1                     | 10                    | 65,450                   | 10                             | 157                 | 12.5                  | 47.4               | 0.0            | 0.0                              | 65.7                       | 213.8                      |
| 98<br>99   | 1,2,9,12,14,16,21,24,27,29,37,38A,45,46,38E,42,44   | 546,520<br>549,470 | 103.5<br>104.1  | 23                        | 10<br>10  | 101<br>103           | 524,670<br>527,630   | 527,650<br>530,610 | 1                     | 10<br>10              | 59,730<br>59,890         | 10<br>12                       | 158<br>153          | 12.5<br>13.3          | 42.1<br>42.6       | 71.6<br>141.0  | 3.4<br>11.6                      | 65.7<br>65.7               | 209.7<br>218.0             |
| 100        | 1,2,9,12,14,16,21,24,27,29,37,38A,45,47,41B,42,44<br>1,2,9,12,14,16,21,24,27,29,37,39,41A,41B,42,44                   | 545,200            | 104.1           | 23                        | 10        | 106                  | 523,350              | 503,650            | 1                     | 10                    | 61,990                   | 12                             | 151                 | 15.2                  | 43.3               | 141.0          | 21.6                             | 65.7                       | 225.3                      |
| 101        | 1,2,9,12,14,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 517,210            | 98              | 16                        | 12        | 100                  | 416,360              | 503,980            | 3                     | 10                    | 63,500                   | 10                             | 169                 | 17.8                  | 44.3               | 0.0            | 0.0                              | 65.7                       | 82.6                       |
| 102        | 1,2,9,12,14,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 525,090            | 99.4            | 18                        | 12        | 103                  | 424,230              | 504,430            | 3                     | 10                    | 59,570                   | 10                             | 170                 | 15.2                  | 44.9               | 0.0            | 0.0                              | 65.7                       | 82.6                       |
| 103        | 1,2,9,12,14,16,21,24,27,30,31,36,37,38A,45,46,38E,42,44   | 512,320            | 97              | 19                        | 12        | 101                  | 411,460              | 501,430            | 3                     | 10                    | 53,860                   | 10                             | 171                 | 15.2                  | 39.6               | 71.6           | 3.4                              | 65.7                       | 78.6                       |
| 104        | 1,2,9,12,14,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44   | 515,270            | 97.6            | 19                        | 12        | 103                  | 414,420              | 504,390            | 3                     | 10                    | 54,020                   | 12                             | 166                 | 16                    | 40.1               | 141.0          | 11.6                             | 65.7                       | 86.9                       |
| 105<br>106 | 1,2,9,12,14,16,21,24,27,30,31,36,37,39,41A,41B,42,44<br>1,2,9,12,14,16,21,24,27,30,31,40,41A,41B,42,44                | 511,000<br>502,480 | 96.8<br>95.2    | 17<br>16                  | 12<br>13  | 106<br>101           | 410,140<br>386,870   | 477,430<br>478,980 | 3                     | 10<br>12              | 56,110<br>54,060         | 12                             | 164<br>165          | 17.9<br>14.7          | 40.9<br>35.6       | 146.5<br>201.4 | 21.6<br>32.8                     | 65.7<br>65.7               | 94.2<br>92.6               |
| 107        | 1,2,9,12,14,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 533,300            | 101             | 17                        | 12        | 97                   | 505,830              | 520,070            | 1                     | 12                    | 63,500                   | 12                             | 145                 | 14.7                  | 42.3               | 0.0            | 0.0                              | 65.7                       | 106.8                      |
| 108        | 1,2,9,12,14,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 541,170            | 102.5           | 19                        | 12        | 100                  | 513,700              | 520,510            | 1                     | 12                    | 59,570                   | 12                             | 146                 | 12.1                  | 42.8               | 0.0            | 0.0                              | 65.7                       | 106.8                      |
| 109        | 1,2,9,12,14,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44  | 528,400            | 100.1           | 20                        | 12        | 98                   | 500,930              | 517,520            | 1                     | 12                    | 53,860                   | 12                             | 147                 | 12.1                  | 37.6               | 71.6           | 3.4                              | 65.7                       | 102.8                      |
| 110        | 1,2,9,12,14,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 531,360            | 100.6           | 20                        | 12        | 100                  | 503,890              | 520,470            | 1                     | 12                    | 54,020                   | 14                             | 142                 | 12.9                  | 38.1               | 141.0          | 11.6                             | 65.7                       | 111.1                      |
| 111        | 1,2,9,12,14,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44<br>1,2,9,12,14,16,21,24,27,30,32,34,40,41A,41B,42,44          | 527,090<br>518,560 | 99.8<br>98.2    | 18<br>19                  | 12<br>13  | 103<br>98            | 499,620<br>476,340   | 493,510<br>495,070 | 1 1                   | 12<br>14              | 56,110<br>54,060         | 14<br>14                       | 140<br>141          | 14.8<br>11.6          | 38.8<br>33.5       | 146.5<br>201.4 | 21.6<br>32.8                     | 65.7<br>65.7               | 118.4<br>116.8             |
| 113        | 1,2,9,12,14,16,21,24,27,30,32,34,40,41A,41B,42,44   | 518,560            | 98.2            | 17                        | 13        | 98<br>99             | 501,430              | 502,950            | 1                     | 11                    | 20,220                   | 13                             | 141                 | 11.6                  | 33.5               | 88.3           | 25.0                             | 65.7                       | 105.2                      |
| 114        | 1,2,9,12,14,16,21,24,28,33,43,44  | 521,090            | 98.7            | 18                        | 13        | 101                  | 466,470              | 509,860            | 1                     | 11                    | 20,220                   | 13                             | 160                 | 14.4                  | 38.1               | 88.3           | 25.0                             | 65.7                       | 116.4                      |
| 115        | 1,2,9,12,14,16,22,33,43,44  | 497,130            | 94.2            | 16                        | 13        | 103                  | 485,780              | 485,890            | 3                     | 11                    | 20,220                   | 11                             | 146                 | 13.6                  | 36.9               | 88.3           | 25.0                             | 65.7                       | 105.4                      |
| 116        | 1,3,4,6,8,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 610,390            | 115.6           | 20                        | 11        | 104                  | 499,390              | 508,380            | 0                     | 14                    | 69,380                   | 9                              | 193                 | 14.3                  | 51.8               | 0.0            | 0.0                              | 200.6                      | 246.1                      |
| 117        | 1,3,4,6,8,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44  | 618,270            | 117.1           | 22                        | 11        | 107                  | 507,260              | 508,820            | 0                     | 14                    | 65,450                   | 9                              | 194                 | 11.7                  | 52.3               | 0.0            | 0.0                              | 200.6                      | 246.1                      |
| 118<br>119 | 1,3,4,6,8,19,25,26,27,29,37,38A,45,46,38E,42,44<br>1,3,4,6,8,19,25,26,27,29,37,38A,45,47,41B,42,44                    | 605,490<br>608,450 | 114.7<br>115.2  | 23                        | 11<br>11  | 105<br>107           | 494,490<br>497,450   | 505,820<br>508,780 | 0                     | 14<br>14              | 59,730<br>59,890         | 9 11                           | 195<br>190          | 11.7<br>12.5          | 47<br>47.5         | 71.6<br>141.0  | 3.4<br>11.6                      | 200.6                      | 242.0<br>250.3             |
| 120        | 1,3,4,6,8,19,25,26,27,29,37,38A,45,47,41B,42,44<br>1,3,4,6,8,19,25,26,27,29,37,39,41A,41B,42,44                       | 604,180            | 115.2           | 23                        | 11        | 110                  | 497,450<br>493,180   | 481,820            | 0                     | 14                    | 61,990                   | 11                             | 188                 | 12.5                  | 48.3               | 141.0          | 21.6                             | 200.6                      | 250.3                      |
| 121        | 1,3,4,6,8,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 576,190            | 109.1           | 16                        | 13        | 104                  | 386,180              | 482,150            | 2                     | 14                    | 63,500                   | 9                              | 206                 | 17                    | 49.3               | 0.0            | 0.0                              | 200.6                      | 115.0                      |
| 122        | 1,3,4,6,8,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 584,060            | 110.6           | 18                        | 13        | 107                  | 394,050              | 482,600            | 2                     | 14                    | 59,570                   | 9                              | 207                 | 14.4                  | 49.8               | 0.0            | 0.0                              | 200.6                      | 115.0                      |
| 123        | 1,3,4,6,8,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44   | 571,290            | 108.2           | 19                        | 13        | 105                  | 381,280              | 479,600            | 2                     | 14                    | 53,860                   | 9                              | 208                 | 14.3                  | 44.5               | 71.6           | 3.4                              | 200.6                      | 110.9                      |
| 124        | 1,3,4,6,8,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 574,250            | 108.8           | 19                        | 13        | 107                  | 384,240              | 482,560            | 2                     | 14                    | 54,020                   | 11                             | 203                 | 15.2                  | 45.1               | 141.0          | 11.6                             | 200.6                      | 119.2                      |
| 125        | 1,3,4,6,8,19,25,26,27,30,31,36,37,39,41A,41B,42,44  | 569,980            | 108             | 17                        | 13        | 110                  | 379,970              | 455,600<br>457,150 | 2                     | 14                    | 56,110                   | 11                             | 201                 | 17                    | 45.8               | 146.5          | 21.6                             | 200.6                      | 126.5                      |
| 126        | 1,3,4,6,8,19,25,26,27,30,31,40,41A,41B,42,44  | 561,450            | 106.3           | 16                        | 14        | 105                  | 356,690              | 457,150            | 2                     | 16                    | 54,060                   | 11                             | 202                 | 13.8                  | 40.5               | 201.4          | 32.8                             | 200.6                      | 124.9                      |

|              |   |                    |                |                |           |                  |                                | 1                   | 1                      |                       | 1                     |                |                |                 | 1               | 1                      | 1                                    |                                   |                                 |
|--------------|---|--------------------|----------------|----------------|-----------|------------------|--------------------------------|---------------------|------------------------|-----------------------|-----------------------|----------------|----------------|-----------------|-----------------|------------------------|--------------------------------------|-----------------------------------|---------------------------------|
|              |   |                    |                |                |           |                  | Length Not                     |                     |                        |                       | Length                |                |                |                 |                 | Gray Bat               |                                      | Eastern                           | Broadhead                       |
|              |   | Total              | Total          | Angles Over 30 | Highway   | Other<br>Roadway | Along Existing<br>Transmission | Length Not<br>Along | Oil/Gas<br>Wells/Tanks | Number of<br>Pipeline | Through<br>Previously | Transmission   | Stream         | Waterbodies     | Wetlands in     | Critical<br>Habitat in | Woodland within<br>Gray Bat Critical | Spotted Skunk<br>Critical Habitat | Skink State<br>Critical Habitat |
| Doute        | Commande  | Length             | Length         | Degrees        | Crossings | Crossings        | Line                           | Roads               | in ROW                 | Crossings             | Mined Area            | Line Crossings | Crossings      | in ROW          | ROW (pares)     | ROW                    | Habitat in ROW                       | in ROW                            | in ROW                          |
| Route<br>127 | Segments<br>1,3,4,6,8,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | (ft)<br>592,280    | (mi)<br>112.2  | (count)<br>17  | (count)   | (count)<br>101   | (feet)<br>475,650              | (feet)<br>498,240   | (count)                | (count)<br>16         | (feet)<br>63,500      | (count)        | (count)<br>182 | (acres)<br>13.9 | (acres)<br>47.2 | (acres)<br>0.0         | (acres)<br>0.0                       | (acres)<br>200.6                  | (acres)<br>139.2                |
| 128          | 1,3,4,6,8,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 600,150            | 113.7          | 19             | 13        | 104              | 483,520                        | 498,690             | 0                      | 16                    | 59,570                | 11             | 183            | 11.3            | 47.8            | 0.0                    | 0.0                                  | 200.6                             | 139.2                           |
| 129          | 1,3,4,6,8,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 587,380            | 111.2          | 20             | 13        | 102              | 470,750                        | 495,690             | 0                      | 16                    | 53,860                | 11             | 184            | 11.3            | 42.5            | 71.6                   | 3.4                                  | 200.6                             | 135.1                           |
| 130          | 1,3,4,6,8,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 590,340            | 111.8          | 20             | 13        | 104              | 473,710                        | 498,650             | 0                      | 16                    | 54,020                | 13             | 179            | 12.1            | 43              | 141.0                  | 11.6                                 | 200.6                             | 143.4                           |
| 131          | 1,3,4,6,8,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44   | 586,070            | 111            | 18             | 13        | 107              | 469,440                        | 471,680             | 0                      | 16                    | 56,110                | 13             | 177            | 14              | 43.8            | 146.5                  | 21.6                                 | 200.6                             | 150.7                           |
| 132          | 1,3,4,6,8,19,25,26,27,30,32,34,40,41A,41B,42,44   | 577,540            | 109.4          | 19             | 14        | 102              | 446,170                        | 473,240             | 0                      | 18                    | 54,060                | 13             | 178            | 10.8            | 38.5            | 201.4                  | 32.8                                 | 200.6                             | 149.1                           |
| 133<br>134   | 1,3,4,6,8,19,25,26,27,30,32,35,43,44<br>1,3,4,6,8,19,25,26,28,33,43,44  | 573,160<br>580,070 | 108.6<br>109.9 | 17<br>16       | 14<br>14  | 103<br>105       | 471,260<br>436,300             | 481,120<br>488,030  | 0                      | 15<br>15              | 20,220<br>20,220      | 12<br>12       | 179<br>197     | 9.2<br>13.6     | 37.6<br>43.1    | 88.3<br>88.3           | 25.0<br>25.0                         | 200.6<br>200.6                    | 137.5<br>148.7                  |
| 134          | 1,3,4,6,9,12,13,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 561,180            | 109.9          | 20             | 10        | 100              | 500,610                        | 523,540             | 1                      | 10                    | 69.380                | 10             | 179            | 13.6            | 53.2            | 0.0                    | 0.0                                  | 60.3                              | 246.1                           |
| 136          | 1,3,4,6,9,12,13,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44  | 569,050            | 107.8          | 22             | 10        | 103              | 508,480                        | 523,980             | 1                      | 10                    | 65,450                | 10             | 180            | 11.4            | 53.8            | 0.0                    | 0.0                                  | 60.3                              | 246.1                           |
| 137          | 1,3,4,6,9,12,13,17,18,19,25,26,27,29,37,38A,45,46,38E,42,44   | 556,280            | 105.4          | 23             | 10        | 101              | 495,710                        | 520,990             | 1                      | 10                    | 59,730                | 10             | 181            | 11.4            | 48.5            | 71.6                   | 3.4                                  | 60.3                              | 242.0                           |
| 138          | 1,3,4,6,9,12,13,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 559,240            | 105.9          | 23             | 10        | 103              | 498,670                        | 523,940             | 1                      | 10                    | 59,890                | 12             | 176            | 12.2            | 49              | 141.0                  | 11.6                                 | 60.3                              | 250.3                           |
| 139          | 1,3,4,6,9,12,13,17,18,19,25,26,27,29,37,39,41A,41B,42,44  | 554,960            | 105.1          | 21             | 10        | 106              | 494,400                        | 496,980             | 1                      | 10                    | 61,990                | 12             | 174            | 14.1            | 49.7            | 146.5                  | 21.6                                 | 60.3                              | 257.6                           |
| 140          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 526,980            | 99.8           | 16             | 12        | 100              | 387,400                        | 497,320             | 3                      | 10                    | 63,500                | 10             | 192            | 16.7            | 50.7            | 0.0                    | 0.0                                  | 60.3                              | 115.0                           |
| 141<br>142   | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44<br>1,3,4,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44 | 534,850<br>522,080 | 101.3<br>98.9  | 18<br>19       | 12<br>12  | 103<br>101       | 395,270<br>382,500             | 497,760<br>494,760  | 3                      | 10<br>10              | 59,570<br>53,860      | 10<br>10       | 193<br>194     | 14.1<br>14.1    | 51.3<br>46      | 0.0<br>71.6            | 0.0<br>3.4                           | 60.3<br>60.3                      | 115.0                           |
| 142          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 525,040            | 99.4           | 19             | 12        | 101              | 385,460                        | 494,760             | 3                      | 10                    | 54,020                | 12             | 189            | 14.1            | 46.5            | 141.0                  | 11.6                                 | 60.3                              | 110.9<br>119.2                  |
| 144          | 1.3.4.6.9.12.13.17.18.19.25.26.27.30.31.36.37.39.41A.41B.42.44  | 520,760            | 98.6           | 17             | 12        | 106              | 381,190                        | 470,760             | 3                      | 10                    | 56,110                | 12             | 187            | 16.8            | 47.3            | 146.5                  | 21.6                                 | 60.3                              | 126.5                           |
| 145          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,31,40,41A,41B,42,44  | 512,240            | 97             | 16             | 13        | 101              | 357,910                        | 472,320             | 3                      | 12                    | 54,060                | 12             | 188            | 13.6            | 42              | 201.4                  | 32.8                                 | 60.3                              | 124.9                           |
| 146          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 543,060            | 102.9          | 17             | 12        | 97               | 476,870                        | 513,400             | 1                      | 12                    | 63,500                | 12             | 168            | 13.6            | 48.7            | 0.0                    | 0.0                                  | 60.3                              | 139.2                           |
| 147          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 550,940            | 104.3          | 19             | 12        | 100              | 484,750                        | 513,850             | 1                      | 12                    | 59,570                | 12             | 169            | 11              | 49.2            | 0.0                    | 0.0                                  | 60.3                              | 139.2                           |
| 148          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 538,170            | 101.9          | 20             | 12        | 98               | 471,980                        | 510,850             | 1                      | 12                    | 53,860                | 12             | 170            | 11              | 44              | 71.6                   | 3.4                                  | 60.3                              | 135.1                           |
| 149          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 541,120            | 102.5          | 20             | 12        | 100              | 474,930                        | 513,810             | 1                      | 12                    | 54,020                | 14             | 165            | 11.8            | 44.5            | 141.0                  | 11.6                                 | 60.3                              | 143.4                           |
| 150<br>151   | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44            | 536,850<br>528,330 | 101.7<br>100.1 | 18<br>19       | 12<br>13  | 103<br>98        | 470,660<br>447,390             | 486,850<br>488,400  | 1                      | 12<br>14              | 56,110<br>54,060      | 14<br>14       | 163<br>164     | 13.7<br>10.5    | 45.2<br>39.9    | 146.5<br>201.4         | 21.6<br>32.8                         | 60.3<br>60.3                      | 150.7<br>149.1                  |
| 151          | 1,3,4,6,9,12,13,17,18,19,25,26,27,30,32,35,43,44  | 523,950            | 99.2           | 17             | 13        | 99               | 472,480                        | 496,280             | 1                      | 11                    | 20,220                | 13             | 165            | 8.9             | 39.9            | 88.3                   | 25.0                                 | 60.3                              | 137.5                           |
| 153          | 1,3,4,6,9,12,13,17,18,19,25,26,28,33,43,44  | 530,860            | 100.5          | 16             | 13        | 101              | 437,520                        | 503,190             | 1                      | 11                    | 20,220                | 13             | 183            | 13.3            | 44.6            | 88.3                   | 25.0                                 | 60.3                              | 148.7                           |
| 154          | 1,3,4,6,9,12,13,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 544,200            | 103.1          | 21             | 10        | 100              | 484,170                        | 525,020             | 1                      | 10                    | 69,380                | 10             | 164            | 14.2            | 51.8            | 0.0                    | 0.0                                  | 60.3                              | 212.1                           |
| 155          | 1,3,4,6,9,12,13,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 552,080            | 104.6          | 23             | 10        | 103              | 492,040                        | 525,470             | 1                      | 10                    | 65,450                | 10             | 165            | 11.6            | 52.3            | 0.0                    | 0.0                                  | 60.3                              | 212.1                           |
| 156          | 1,3,4,6,9,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44  | 539,310            | 102.1          | 24             | 10        | 101              | 479,270                        | 522,470             | 1                      | 10                    | 59,730                | 10             | 166            | 11.6            | 47.1            | 71.6                   | 3.4                                  | 60.3                              | 208.0                           |
| 157          | 1,3,4,6,9,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44  | 542,260            | 102.7          | 24             | 10        | 103              | 482,230                        | 525,430             | 1                      | 10                    | 59,890                | 12             | 161            | 12.4            | 47.6            | 141.0                  | 11.6                                 | 60.3                              | 216.3                           |
| 158          | 1,3,4,6,9,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44   | 537,990            | 101.9          | 22             | 10        | 106              | 477,950                        | 498,470             | 1                      | 10                    | 61,990                | 12             | 159            | 14.3            | 48.3            | 146.5                  | 21.6                                 | 60.3                              | 223.6                           |
| 159<br>160   | 1,3,4,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,4,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44    | 510,000<br>517,870 | 96.6<br>98.1   | 17<br>19       | 12<br>12  | 100<br>103       | 370,960<br>378,830             | 498,800<br>499,250  | 3                      | 10<br>10              | 63,500<br>59,570      | 10<br>10       | 177<br>178     | 16.9<br>14.3    | 49.3<br>49.9    | 0.0                    | 0.0                                  | 60.3<br>60.3                      | 81.0<br>81.0                    |
| 161          | 1,3,4,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 505,100            | 95.7           | 20             | 12        | 101              | 366,060                        | 496,250             | 3                      | 10                    | 53,860                | 10             | 179            | 14.3            | 44.6            | 71.6                   | 3.4                                  | 60.3                              | 76.9                            |
| 162          | 1,3,4,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44  | 508,060            | 96.2           | 20             | 12        | 103              | 369,020                        | 499,210             | 3                      | 10                    | 54,020                | 12             | 174            | 15.1            | 45.1            | 141.0                  | 11.6                                 | 60.3                              | 85.2                            |
| 163          | 1,3,4,6,9,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44   | 503,790            | 95.4           | 18             | 12        | 106              | 364,740                        | 472,240             | 3                      | 10                    | 56,110                | 12             | 172            | 17              | 45.9            | 146.5                  | 21.6                                 | 60.3                              | 92.5                            |
| 164          | 1,3,4,6,9,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44   | 495,260            | 93.8           | 17             | 13        | 101              | 341,470                        | 473,800             | 3                      | 12                    | 54,060                | 12             | 173            | 13.8            | 40.6            | 201.4                  | 32.8                                 | 60.3                              | 90.9                            |
| 165          | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 526,090            | 99.6           | 18             | 12        | 97               | 460,430                        | 514,890             | 1                      | 12                    | 63,500                | 12             | 153            | 13.8            | 47.3            | 0.0                    | 0.0                                  | 60.3                              | 105.2                           |
| 166          | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 533,960            | 101.1          | 20             | 12        | 100              | 468,300                        | 515,330             | 1                      | 12                    | 59,570                | 12             | 154            | 11.2            | 47.8            | 0.0                    | 0.0                                  | 60.3                              | 105.2                           |
| 167<br>168   | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44      | 521,190<br>524,150 | 98.7<br>99.3   | 21<br>21       | 12<br>12  | 98<br>100        | 455,530<br>458,490             | 512,330<br>515,290  | 1                      | 12<br>12              | 53,860<br>54,020      | 12<br>14       | 155<br>150     | 11.2<br>12      | 42.5<br>43.1    | 71.6<br>141.0          | 3.4<br>11.6                          | 60.3<br>60.3                      | 101.1<br>109.4                  |
| 169          | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 519,880            | 98.5           | 19             | 12        | 103              | 454,220                        | 488,330             | 1                      | 12                    | 56,110                | 14             | 148            | 13.9            | 43.1            | 141.0                  | 21.6                                 | 60.3                              | 116.7                           |
| 170          | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 511,350            | 96.8           | 20             | 13        | 98               | 430,940                        | 489,890             | 1                      | 14                    | 54,060                | 14             | 149            | 10.7            | 38.5            | 201.4                  | 32.8                                 | 60.3                              | 115.1                           |
| 171          | 1,3,4,6,9,12,13,17,20,23,26,27,30,32,35,43,44   | 506,970            | 96             | 18             | 13        | 99               | 456,030                        | 497,770             | 1                      | 11                    | 20,220                | 13             | 150            | 9.1             | 37.7            | 88.3                   | 25.0                                 | 60.3                              | 103.5                           |
| 172          | 1,3,4,6,9,12,13,17,20,23,26,28,33,43,44   | 513,880            | 97.3           | 17             | 13        | 101              | 421,080                        | 504,680             | 1                      | 11                    | 20,220                | 13             | 168            | 13.5            | 43.1            | 88.3                   | 25.0                                 | 60.3                              | 114.7                           |
| 173          | 1,3,4,6,9,12,13,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44   | 541,430            | 102.5          | 18             | 10        | 100              | 483,040                        | 522,250             | 1                      | 10                    | 69,380                | 10             | 164            | 14.2            | 51.5            | 0.0                    | 0.0                                  | 60.3                              | 210.8                           |
| 174          | 1,3,4,6,9,12,13,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44  | 549,300            | 104            | 20             | 10        | 103              | 490,910                        | 522,690             | 1                      | 10                    | 65,450                | 10             | 165            | 11.6            | 52              | 0.0                    | 0.0                                  | 60.3                              | 210.8                           |
| 175<br>176   | 1,3,4,6,9,12,13,17,20,24,27,29,37,38A,45,46,38E,42,44<br>1,3,4,6,9,12,13,17,20,24,27,29,37,38A,45,47,41B,42,44                              | 536,530<br>539,490 | 101.6<br>102.2 | 21<br>21       | 10<br>10  | 101<br>103       | 478,140<br>481,100             | 519,700<br>522,650  | 1                      | 10<br>10              | 59,730<br>59,890      | 10<br>12       | 166<br>161     | 11.6<br>12.4    | 46.8<br>47.3    | 71.6<br>141.0          | 3.4<br>11.6                          | 60.3<br>60.3                      | 206.7<br>215.0                  |
| 177          | 1,3,4,6,9,12,13,17,20,24,27,29,37,38A,43,47,41B,42,44   | 535,220            | 102.2          | 19             | 10        | 106              | 476,820                        | 495,690             | 1                      | 10                    | 61,990                | 12             | 159            | 14.3            | 47.3            | 141.0                  | 21.6                                 | 60.3                              | 222.3                           |
| 178          | 1,3,4,6,9,12,13,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 507,230            | 96.1           | 14             | 12        | 100              | 369,830                        | 496,030             | 3                      | 10                    | 63,500                | 10             | 177            | 16.9            | 49              | 0.0                    | 0.0                                  | 60.3                              | 79.7                            |
| 179          | 1,3,4,6,9,12,13,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 515,100            | 97.6           | 16             | 12        | 103              | 377,700                        | 496,470             | 3                      | 10                    | 59,570                | 10             | 178            | 14.3            | 49.6            | 0.0                    | 0.0                                  | 60.3                              | 79.7                            |
| 180          | 1,3,4,6,9,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44   | 502,330            | 95.1           | 17             | 12        | 101              | 364,930                        | 493,470             | 3                      | 10                    | 53,860                | 10             | 179            | 14.3            | 44.3            | 71.6                   | 3.4                                  | 60.3                              | 75.6                            |
| 181          | 1,3,4,6,9,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44   | 505,290            | 95.7           | 17             | 12        | 103              | 367,890                        | 496,430             | 3                      | 10                    | 54,020                | 12             | 174            | 15.1            | 44.8            | 141.0                  | 11.6                                 | 60.3                              | 83.9                            |
| 182          | 1,3,4,6,9,12,13,17,20,24,27,30,31,36,37,39,41A,41B,42,44  | 501,020            | 94.9           | 15             | 12        | 106              | 363,610                        | 469,470             | 3                      | 10                    | 56,110                | 12             | 172            | 17              | 45.6            | 146.5                  | 21.6                                 | 60.3                              | 91.2                            |
| 183          | 1,3,4,6,9,12,13,17,20,24,27,30,31,40,41A,41B,42,44  | 492,490            | 93.3           | 14             | 13        | 101              | 340,340                        | 471,030             | 3                      | 12                    | 54,060                | 12             | 173            | 13.8            | 40.3            | 201.4                  | 32.8                                 | 60.3                              | 89.6                            |
| 184<br>185   | 1,3,4,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,4,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44    | 523,310<br>531,190 | 99.1<br>100.6  | 15<br>17       | 12<br>12  | 97<br>100        | 459,300<br>467,170             | 512,110<br>512,560  | 1                      | 12<br>12              | 63,500<br>59,570      | 12<br>12       | 153<br>154     | 13.8<br>11.2    | 47<br>47.5      | 0.0                    | 0.0                                  | 60.3<br>60.3                      | 103.9<br>103.9                  |
| 186          | 1,3,4,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 518,420            | 98.2           | 18             | 12        | 98               | 457,170                        | 509,560             | 1                      | 12                    | 53,860                | 12             | 155            | 11.2            | 47.5            | 71.6                   | 3.4                                  | 60.3                              | 99.8                            |
| 187          | 1,3,4,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 521,370            | 98.7           | 18             | 12        | 100              | 457,360                        | 512,520             | 1                      | 12                    | 54,020                | 14             | 150            | 12              | 42.8            | 141.0                  | 11.6                                 | 60.3                              | 108.1                           |
| 188          | 1,3,4,6,9,12,13,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44   | 517,100            | 97.9           | 16             | 12        | 103              | 453,090                        | 485,560             | 1                      | 12                    | 56,110                | 14             | 148            | 13.9            | 43.5            | 146.5                  | 21.6                                 | 60.3                              | 115.4                           |
| 189          | 1,3,4,6,9,12,13,17,20,24,27,30,32,34,40,41A,41B,42,44   | 508,580            | 96.3           | 17             | 13        | 98               | 429,810                        | 487,110             | 1                      | 14                    | 54,060                | 14             | 149            | 10.7            | 38.2            | 201.4                  | 32.8                                 | 60.3                              | 113.8                           |

|            |  | 1                  |                 | I                         |                      |                      | I                         | l                  |                       |                       | 1                        | 1                              |                     |                       | 1                  | 1                    |                                  |                            |                            |
|------------|--|--------------------|-----------------|---------------------------|----------------------|----------------------|---------------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------------|---------------------|-----------------------|--------------------|----------------------|----------------------------------|----------------------------|----------------------------|
|            |  |                    |                 |                           |                      | Other                | Length Not Along Existing | Length Not         | Oil/Gas               | Number of             | Length<br>Through        |                                |                     |                       |                    | Gray Bat<br>Critical | Woodland within                  | Eastern<br>Spotted Skunk   | Broadhead<br>Skink State   |
|            |  | Total<br>Length    | Total<br>Length | Angles Over 30<br>Degrees | Highway<br>Crossings | Roadway<br>Crossings | Transmission<br>Line      | Along<br>Roads     | Wells/Tanks<br>in ROW | Pipeline<br>Crossings | Previously<br>Mined Area | Transmission<br>Line Crossings | Stream<br>Crossings | Waterbodies<br>in ROW | Wetlands in<br>ROW | Habitat in<br>ROW    | Gray Bat Critical Habitat in ROW | Critical Habitat<br>in ROW | Critical Habitat<br>in ROW |
| Route      | Segments   | (ft)               | (mi)            | (count)                   | (count)              | (count)              | (feet)                    | (feet)             | (count)               | (count)               | (feet)                   | (count)                        | (count)             | (acres)               | (acres)            | (acres)              | (acres)                          | (acres)                    | (acres)                    |
| 190        | 1,3,4,6,9,12,13,17,20,24,27,30,32,35,43,44   | 504,200            | 95.5            | 15                        | 13                   | 99                   | 454,900                   | 494,990            | 1                     | 11                    | 20,220                   | 13                             | 150                 | 9.1                   | 37.4               | 88.3                 | 25.0                             | 60.3                       | 102.2                      |
| 191        | 1,3,4,6,9,12,13,17,20,24,28,33,43,44   | 511,110            | 96.8            | 16                        | 13                   | 101                  | 419,940                   | 501,900            | 1                     | 11                    | 20,220                   | 13                             | 168                 | 13.5                  | 42.8               | 88.3                 | 25.0                             | 60.3                       | 113.5                      |
| 192        | 1,3,4,6,9,12,14,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 558,540            | 105.8           | 21                        | 10                   | 101                  | 528,800                   | 538,780            | 1                     | 10                    | 69,380                   | 10                             | 167                 | 15.6                  | 52.3               | 0.0                  | 0.0                              | 60.3                       | 215.1                      |
| 193<br>194 | 1,3,4,6,9,12,14,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,3,4,6,9,12,14,16,21,23,26,27,29,37,38A,45,46,38E,42,44                | 566,410<br>553,640 | 107.3<br>104.9  | 23<br>24                  | 10<br>10             | 104<br>102           | 536,680<br>523,910        | 539,220<br>536,220 | 1                     | 10<br>10              | 65,450<br>59,730         | 10<br>10                       | 168<br>169          | 13<br>13              | 52.8<br>47.5       | 0.0<br>71.6          | 0.0<br>3.4                       | 60.3<br>60.3               | 215.1<br>211.0             |
| 195        | 1,3,4,6,9,12,14,16,21,23,26,27,29,37,38A,45,47,41B,42,44   | 556,600            | 104.9           | 24                        | 10                   | 102                  | 526,860                   | 539,180            | 1                     | 10                    | 59,890                   | 12                             | 164                 | 13.8                  | 48                 | 141.0                | 11.6                             | 60.3                       | 219.3                      |
| 196        | 1,3,4,6,9,12,14,16,21,23,26,27,29,37,39,41A,41B,42,44  | 552,330            | 104.6           | 22                        | 10                   | 107                  | 522,590                   | 512,220            | 1                     | 10                    | 61,990                   | 12                             | 162                 | 15.7                  | 48.8               | 146.5                | 21.6                             | 60.3                       | 226.6                      |
| 197        | 1,3,4,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 524,340            | 99.3            | 17                        | 12                   | 101                  | 415,590                   | 512,550            | 3                     | 10                    | 63,500                   | 10                             | 180                 | 18.3                  | 49.8               | 0.0                  | 0.0                              | 60.3                       | 83.9                       |
| 198        | 1,3,4,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 532,210            | 100.8           | 19                        | 12                   | 104                  | 423,470                   | 513,000            | 3                     | 10                    | 59,570                   | 10                             | 181                 | 15.7                  | 50.3               | 0.0                  | 0.0                              | 60.3                       | 83.9                       |
| 199        | 1,3,4,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44   | 519,440            | 98.4            | 20                        | 12                   | 102                  | 410,700                   | 510,000            | 3                     | 10                    | 53,860                   | 10                             | 182                 | 15.6                  | 45                 | 71.6                 | 3.4                              | 60.3                       | 79.8                       |
| 200<br>201 | 1,3,4,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,3,4,6,9,12,14,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44            | 522,400<br>518,130 | 98.9<br>98.1    | 20<br>18                  | 12<br>12             | 104<br>107           | 413,650<br>409,380        | 512,960<br>486,000 | 3                     | 10<br>10              | 54,020<br>56,110         | 12<br>12                       | 177<br>175          | 16.5<br>18.3          | 45.6<br>46.3       | 141.0<br>146.5       | 11.6<br>21.6                     | 60.3<br>60.3               | 88.2<br>95.4               |
| 201        | 1,3,4,6,9,12,14,16,21,23,26,27,30,31,30,37,39,41A,41B,42,44  | 509,600            | 96.5            | 17                        | 13                   | 107                  | 386,110                   | 487,550            | 3                     | 12                    | 54,060                   | 12                             | 176                 | 15.1                  | 40.5               | 201.4                | 32.8                             | 60.3                       | 93.9                       |
| 203        | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 540,430            | 102.4           | 18                        | 12                   | 98                   | 505,070                   | 528,640            | 1                     | 12                    | 63,500                   | 12                             | 156                 | 15.2                  | 47.7               | 0.0                  | 0.0                              | 60.3                       | 108.1                      |
| 204        | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 548,300            | 103.8           | 20                        | 12                   | 101                  | 512,940                   | 529,080            | 1                     | 12                    | 59,570                   | 12                             | 157                 | 12.6                  | 48.3               | 0.0                  | 0.0                              | 60.3                       | 108.1                      |
| 205        | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 535,530            | 101.4           | 21                        | 12                   | 99                   | 500,170                   | 526,090            | 1                     | 12                    | 53,860                   | 12                             | 158                 | 12.6                  | 43                 | 71.6                 | 3.4                              | 60.3                       | 104.0                      |
| 206        | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 538,490            | 102             | 21                        | 12                   | 101                  | 503,130                   | 529,050            | 1                     | 12                    | 54,020                   | 14                             | 153                 | 13.4                  | 43.5               | 141.0                | 11.6                             | 60.3                       | 112.4                      |
| 207        | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | 534,220            | 101.2           | 19                        | 12                   | 104                  | 498,860                   | 502,080            | 1                     | 12                    | 56,110                   | 14                             | 151                 | 15.3                  | 44.3               | 146.5                | 21.6                             | 60.3                       | 119.6                      |
| 208<br>209 | 1,3,4,6,9,12,14,16,21,23,26,27,30,32,34,40,41A,41B,42,44<br>1,3,4,6,9,12,14,16,21,23,26,27,30,32,35,43,44                                | 525,690<br>521,310 | 99.6<br>98.7    | 20<br>18                  | 13<br>13             | 99<br>100            | 475,580<br>500,670        | 503,640<br>511,520 | 1                     | 14<br>11              | 54,060<br>20,220         | 14<br>13                       | 152<br>153          | 12.1<br>10.5          | 39<br>38.1         | 201.4<br>88.3        | 32.8<br>25.0                     | 60.3<br>60.3               | 118.1<br>106.5             |
| 210        | 1,3,4,6,9,12,14,16,21,23,26,28,33,43,44  | 528,220            | 100             | 17                        | 13                   | 100                  | 465,710                   | 511,320            | 1                     | 11                    | 20,220                   | 13                             | 171                 | 14.9                  | 43.6               | 88.3                 | 25.0                             | 60.3                       | 117.7                      |
| 211        | 1,3,4,6,9,12,14,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44  | 555,770            | 105.3           | 20                        | 10                   | 101                  | 527,670                   | 536,000            | 1                     | 10                    | 69,380                   | 10                             | 167                 | 15.6                  | 51.9               | 0.0                  | 0.0                              | 60.3                       | 213.8                      |
| 212        | 1,3,4,6,9,12,14,16,21,24,27,29,37,38A,38B,48,38D,38E,42,44   | 563,640            | 106.8           | 22                        | 10                   | 104                  | 535,550                   | 536,450            | 1                     | 10                    | 65,450                   | 10                             | 168                 | 13                    | 52.5               | 0.0                  | 0.0                              | 60.3                       | 213.8                      |
| 213        | 1,3,4,6,9,12,14,16,21,24,27,29,37,38A,45,46,38E,42,44  | 550,870            | 104.3           | 23                        | 10                   | 102                  | 522,780                   | 533,450            | 1                     | 10                    | 59,730                   | 10                             | 169                 | 13                    | 47.2               | 71.6                 | 3.4                              | 60.3                       | 209.7                      |
| 214        | 1,3,4,6,9,12,14,16,21,24,27,29,37,38A,45,47,41B,42,44  | 553,830            | 104.9           | 23                        | 10                   | 104                  | 525,730                   | 536,410            | 1                     | 10                    | 59,890                   | 12                             | 164                 | 13.8                  | 47.7               | 141.0                | 11.6                             | 60.3                       | 218.0                      |
| 215        | 1,3,4,6,9,12,14,16,21,24,27,29,37,39,41A,41B,42,44   | 549,560            | 104.1           | 21                        | 10                   | 107                  | 521,460                   | 509,450            | 1                     | 10                    | 61,990                   | 12                             | 162                 | 15.7                  | 48.5               | 146.5                | 21.6                             | 60.3                       | 225.3                      |
| 216<br>217 | 1,3,4,6,9,12,14,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,6,9,12,14,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44    | 521,570<br>529,440 | 98.8<br>100.3   | 16<br>18                  | 12<br>12             | 101<br>104           | 414,460<br>422,340        | 509,780<br>510,220 | 3                     | 10<br>10              | 63,500<br>59,570         | 10<br>10                       | 180<br>181          | 18.3<br>15.7          | 49.5<br>50         | 0.0                  | 0.0                              | 60.3<br>60.3               | 82.6<br>82.6               |
| 218        | 1,3,4,6,9,12,14,16,21,24,27,30,31,36,37,38A,45,46,38E,42,44  | 516,670            | 97.9            | 19                        | 12                   | 102                  | 409,570                   | 507,230            | 3                     | 10                    | 53,860                   | 10                             | 182                 | 15.6                  | 44.7               | 71.6                 | 3.4                              | 60.3                       | 78.6                       |
| 219        | 1,3,4,6,9,12,14,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44  | 519,630            | 98.4            | 19                        | 12                   | 104                  | 412,520                   | 510,180            | 3                     | 10                    | 54,020                   | 12                             | 177                 | 16.5                  | 45.3               | 141.0                | 11.6                             | 60.3                       | 86.9                       |
| 220        | 1,3,4,6,9,12,14,16,21,24,27,30,31,36,37,39,41A,41B,42,44   | 515,350            | 97.6            | 17                        | 12                   | 107                  | 408,250                   | 483,220            | 3                     | 10                    | 56,110                   | 12                             | 175                 | 18.3                  | 46                 | 146.5                | 21.6                             | 60.3                       | 94.2                       |
| 221        | 1,3,4,6,9,12,14,16,21,24,27,30,31,40,41A,41B,42,44   | 506,830            | 96              | 16                        | 13                   | 102                  | 384,980                   | 484,780            | 3                     | 12                    | 54,060                   | 12                             | 176                 | 15.1                  | 40.7               | 201.4                | 32.8                             | 60.3                       | 92.6                       |
| 222        | 1,3,4,6,9,12,14,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 537,650            | 101.8           | 17                        | 12                   | 98                   | 503,940                   | 525,870            | 1                     | 12                    | 63,500                   | 12                             | 156                 | 15.2                  | 47.4               | 0.0                  | 0.0                              | 60.3                       | 106.8                      |
| 223<br>224 | 1,3,4,6,9,12,14,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1,3,4,6,9,12,14,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44    | 545,530<br>532,760 | 103.3<br>100.9  | 19<br>20                  | 12<br>12             | 101<br>99            | 511,810<br>499,040        | 526,310<br>523,310 | 1                     | 12<br>12              | 59,570<br>53,860         | 12<br>12                       | 157<br>158          | 12.6<br>12.6          | 48<br>42.7         | 0.0<br>71.6          | 0.0<br>3.4                       | 60.3<br>60.3               | 106.8<br>102.8             |
| 225        | 1,3,4,6,9,12,14,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44   | 535,710            | 100.9           | 20                        | 12                   | 101                  | 502,000                   | 526,270            | 1                     | 12                    | 54,020                   | 14                             | 153                 | 13.4                  | 43.2               | 141.0                | 11.6                             | 60.3                       | 111.1                      |
| 226        | 1,3,4,6,9,12,14,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44  | 531,440            | 100.7           | 18                        | 12                   | 104                  | 497,720                   | 499,310            | 1                     | 12                    | 56,110                   | 14                             | 151                 | 15.3                  | 43.9               | 146.5                | 21.6                             | 60.3                       | 118.4                      |
| 227        | 1,3,4,6,9,12,14,16,21,24,27,30,32,34,40,41A,41B,42,44  | 522,920            | 99              | 19                        | 13                   | 99                   | 474,450                   | 500,860            | 1                     | 14                    | 54,060                   | 14                             | 152                 | 12.1                  | 38.7               | 201.4                | 32.8                             | 60.3                       | 116.8                      |
| 228        | 1,3,4,6,9,12,14,16,21,24,27,30,32,35,43,44   | 518,540            | 98.2            | 17                        | 13                   | 100                  | 499,540                   | 508,750            | 1                     | 11                    | 20,220                   | 13                             | 153                 | 10.5                  | 37.8               | 88.3                 | 25.0                             | 60.3                       | 105.2                      |
| 229        | 1,3,4,6,9,12,14,16,21,24,28,33,43,44   | 525,450            | 99.5            | 18                        | 13                   | 102                  | 464,580                   | 515,650            | 1                     | 11                    | 20,220                   | 13                             | 171                 | 14.9                  | 43.3               | 88.3                 | 25.0                             | 60.3                       | 116.4                      |
| 230        | 1,3,4,6,9,12,14,16,22,33,43,44   | 501,480            | 95              | 16                        | 13                   | 104                  | 483,890                   | 491,690            | 3                     | 11                    | 20,220                   | 11                             | 157                 | 14                    | 42                 | 88.3                 | 25.0                             | 60.3                       | 105.4                      |
| 231        | 1,3,4,7,10,12,13,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,7,10,12,13,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44  | 553,970<br>561,840 | 104.9<br>106.4  | 18<br>20                  | 10<br>10             | 102<br>105           | 493,400<br>501,270        | 522,070<br>522,520 | 0                     | 10<br>10              | 69,380<br>65,450         | 10<br>10                       | 172<br>173          | 15.6<br>13            | 54.9<br>55.4       | 0.0                  | 0.0                              | 28.6<br>28.6               | 246.1<br>246.1             |
| 233        | 1,3,4,7,10,12,13,17,18,19,25,26,27,29,37,38A,45,46,38E,42,44   | 549,070            | 100.4           | 21                        | 10                   | 103                  | 488,500                   | 519,520            | 0                     | 10                    | 59,730                   | 10                             | 174                 | 13                    | 50.1               | 71.6                 | 3.4                              | 28.6                       | 242.0                      |
| 234        | 1,3,4,7,10,12,13,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 552,030            | 104.6           | 21                        | 10                   | 105                  | 491,460                   | 522,480            | 0                     | 10                    | 59,890                   | 12                             | 169                 | 13.8                  | 50.7               | 141.0                | 11.6                             | 28.6                       | 250.3                      |
| 235        | 1,3,4,7,10,12,13,17,18,19,25,26,27,29,37,39,41A,41B,42,44  | 547,760            | 103.7           | 19                        | 10                   | 108                  | 487,190                   | 495,510            | 0                     | 10                    | 61,990                   | 12                             | 167                 | 15.7                  | 51.4               | 146.5                | 21.6                             | 28.6                       | 257.6                      |
| 236        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 519,770            | 98.4            | 14                        | 12                   | 102                  | 380,190                   | 495,850            | 2                     | 10                    | 63,500                   | 10                             | 185                 | 18.3                  | 52.4               | 0.0                  | 0.0                              | 28.6                       | 115.0                      |
| 237        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 527,640            | 99.9            | 16                        | 12                   | 105                  | 388,060                   | 496,290            | 2                     | 10                    | 59,570                   | 10                             | 186                 | 15.7                  | 52.9               | 0.0                  | 0.0                              | 28.6                       | 115.0                      |
| 238<br>239 | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44<br>1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44 | 514,870<br>517,830 | 97.5<br>98.1    | 17<br>17                  | 12<br>12             | 103<br>105           | 375,290<br>378,250        | 493,300<br>496,250 | 2                     | 10<br>10              | 53,860<br>54,020         | 10<br>12                       | 187<br>182          | 15.7<br>16.5          | 47.7<br>48.2       | 71.6<br>141.0        | 3.4<br>11.6                      | 28.6<br>28.6               | 110.9<br>119.2             |
| 240        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,36,37,39,41A,41B,42,44  | 517,830            | 97.3            | 15                        | 12                   | 103                  | 373,980                   | 469,290            | 2                     | 10                    | 56,110                   | 12                             | 180                 | 18.4                  | 48.9               | 141.0                | 21.6                             | 28.6                       | 126.5                      |
| 241        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,31,40,41A,41B,42,44  | 505,030            | 95.6            | 14                        | 13                   | 103                  | 350,710                   | 470,850            | 2                     | 12                    | 54,060                   | 12                             | 181                 | 15.2                  | 43.6               | 201.4                | 32.8                             | 28.6                       | 124.9                      |
| 242        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 535,850            | 101.5           | 15                        | 12                   | 99                   | 469,660                   | 511,930            | 0                     | 12                    | 63,500                   | 12                             | 161                 | 15.3                  | 50.3               | 0.0                  | 0.0                              | 28.6                       | 139.2                      |
| 243        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 543,730            | 103             | 17                        | 12                   | 102                  | 477,540                   | 512,380            | 0                     | 12                    | 59,570                   | 12                             | 162                 | 12.7                  | 50.9               | 0.0                  | 0.0                              | 28.6                       | 139.2                      |
| 244        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 530,960            | 100.6           | 18                        | 12                   | 100                  | 464,770                   | 509,380            | 0                     | 12                    | 53,860                   | 12                             | 163                 | 12.6                  | 45.6               | 71.6                 | 3.4                              | 28.6                       | 135.1                      |
| 245        | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 533,920            | 101.1           | 18                        | 12                   | 102                  | 467,730                   | 512,340            | 0                     | 12                    | 54,020                   | 14                             | 158                 | 13.5                  | 46.1               | 141.0                | 11.6                             | 28.6                       | 143.4                      |
| 246<br>247 | 1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,3,4,7,10,12,13,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44       | 529,640<br>521,120 | 100.3<br>98.7   | 16<br>17                  | 12<br>13             | 105<br>100           | 463,450<br>440,180        | 485,380<br>486,930 | 0                     | 12<br>14              | 56,110<br>54,060         | 14<br>14                       | 156<br>157          | 15.3<br>12.1          | 46.9<br>41.6       | 146.5<br>201.4       | 21.6<br>32.8                     | 28.6<br>28.6               | 150.7<br>149.1             |
| 247        | 1,3,4,7,10,12,13,17,16,13,23,26,27,30,32,34,40,41A,41B,42,44   | 516,740            | 97.9            | 15                        | 13                   | 100                  | 465,270                   | 494,810            | 0                     | 11                    | 20,220                   | 13                             | 158                 | 10.6                  | 40.7               | 88.3                 | 25.0                             | 28.6                       | 137.5                      |
| 249        | 1,3,4,7,10,12,13,17,18,19,25,26,28,33,43,44  | 523,650            | 99.2            | 14                        | 13                   | 103                  | 430,310                   | 501,720            | 0                     | 11                    | 20,220                   | 13                             | 176                 | 15                    | 46.2               | 88.3                 | 25.0                             | 28.6                       | 148.7                      |
| 250        | 1,3,4,7,10,12,13,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 536,990            | 101.7           | 19                        | 10                   | 102                  | 476,960                   | 523,550            | 0                     | 10                    | 69,380                   | 10                             | 157                 | 15.9                  | 53.5               | 0.0                  | 0.0                              | 28.6                       | 212.1                      |
| 251        | 1,3,4,7,10,12,13,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 544,870            | 103.2           | 21                        | 10                   | 105                  | 484,830                   | 524,000            | 0                     | 10                    | 65,450                   | 10                             | 158                 | 13.3                  | 54                 | 0.0                  | 0.0                              | 28.6                       | 212.1                      |
| 252        | 1,3,4,7,10,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44  | 532,100            | 100.8           | 22                        | 10                   | 103                  | 472,060                   | 521,000            | 0                     | 10                    | 59,730                   | 10                             | 159                 | 13.2                  | 48.7               | 71.6                 | 3.4                              | 28.6                       | 208.0                      |

|              |  |                    |                | 1              | 1             |                |                              | 1                  |             |           |                   | 1              |                |                 |                 |                      | T                 |                          |                          |
|--------------|--|--------------------|----------------|----------------|---------------|----------------|------------------------------|--------------------|-------------|-----------|-------------------|----------------|----------------|-----------------|-----------------|----------------------|-------------------|--------------------------|--------------------------|
|              |  |                    |                |                |               |                |                              |                    |             |           |                   |                |                |                 |                 |                      |                   |                          |                          |
|              |  |                    |                |                |               | Other          | Length Not<br>Along Existing | Length Not         | Oil/Gas     | Number of | Length<br>Through |                |                |                 |                 | Gray Bat<br>Critical | Woodland within   | Eastern<br>Spotted Skunk | Broadhead<br>Skink State |
|              |  | Total              | Total          | Angles Over 30 | Highway       | Roadway        | Transmission                 | Along              | Wells/Tanks | Pipeline  | Previously        | Transmission   | Stream         | Waterbodies     | Wetlands in     |                      | Gray Bat Critical | Critical Habitat         | Critical Habitat         |
|              |  | Length             | Length         | Degrees        | Crossings     | Crossings      | Line                         | Roads              | in ROW      | Crossings | Mined Area        | Line Crossings | Crossings      | in ROW          | ROW             | ROW                  | Habitat in ROW    | in ROW                   | in ROW                   |
| Route<br>253 | Segments<br>1,3,4,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44  | (ft)<br>535,050    | (mi)<br>101.3  | (count)<br>22  | (count)<br>10 | (count)<br>105 | (feet)<br>475,020            | (feet)<br>523,960  | (count)     | (count)   | (feet)<br>59,890  | (count)<br>12  | (count)<br>154 | (acres)<br>14.1 | (acres)<br>49.2 | (acres)<br>141.0     | (acres)<br>11.6   | (acres)<br>28.6          | (acres)<br>216.3         |
| 253          | 1,3,4,7,10,12,13,17,20,23,26,27,29,37,39,418,418,42,44   | 530,780            | 101.5          | 20             | 10            | 103            | 473,020                      | 497,000            | 0           | 10        | 61,990            | 12             | 152            | 15.9            | 50              | 141.0                | 21.6              | 28.6                     | 223.6                    |
| 255          | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 502,790            | 95.2           | 15             | 12            | 102            | 363,750                      | 497,330            | 2           | 10        | 63,500            | 10             | 170            | 18.5            | 51              | 0.0                  | 0.0               | 28.6                     | 81.0                     |
| 256          | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 510,670            | 96.7           | 17             | 12            | 105            | 371,620                      | 497,780            | 2           | 10        | 59,570            | 10             | 171            | 15.9            | 51.5            | 0.0                  | 0.0               | 28.6                     | 81.0                     |
| 257          | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 497,900            | 94.3           | 18             | 12            | 103            | 358,850                      | 494,780            | 2           | 10        | 53,860            | 10             | 172            | 15.9            | 46.2            | 71.6                 | 3.4               | 28.6                     | 76.9                     |
| 258<br>259   | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,3,4,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44          | 500,850<br>496,580 | 94.9<br>94     | 18<br>16       | 12<br>12      | 105<br>108     | 361,810<br>357,540           | 497,740<br>470,770 | 2           | 10<br>10  | 54,020<br>56,110  | 12<br>12       | 167<br>165     | 16.7<br>18.6    | 46.8<br>47.5    | 141.0<br>146.5       | 11.6<br>21.6      | 28.6<br>28.6             | 85.2<br>92.5             |
| 260          | 1,3,4,7,10,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44   | 488,060            | 92.4           | 15             | 13            | 103            | 334,260                      | 472,330            | 2           | 12        | 54,060            | 12             | 166            | 15.4            | 42.2            | 201.4                | 32.8              | 28.6                     | 90.9                     |
| 261          | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 518,880            | 98.3           | 16             | 12            | 99             | 453,220                      | 513,420            | 0           | 12        | 63,500            | 12             | 146            | 15.5            | 48.9            | 0.0                  | 0.0               | 28.6                     | 105.2                    |
| 262          | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 526,750            | 99.8           | 18             | 12            | 102            | 461,100                      | 513,860            | 0           | 12        | 59,570            | 12             | 147            | 12.9            | 49.5            | 0.0                  | 0.0               | 28.6                     | 105.2                    |
| 263<br>264   | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 | 513,980<br>516,940 | 97.3<br>97.9   | 19<br>19       | 12<br>12      | 100<br>102     | 448,320<br>451,280           | 510,870<br>513,820 | 0           | 12<br>12  | 53,860<br>54,020  | 12<br>14       | 148<br>143     | 12.8<br>13.7    | 44.2<br>44.7    | 71.6<br>141.0        | 3.4<br>11.6       | 28.6<br>28.6             | 101.1<br>109.4           |
| 265          | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 512,670            | 97.1           | 17             | 12            | 105            | 447,010                      | 486,860            | 0           | 12        | 56,110            | 14             | 141            | 15.6            | 45.5            | 146.5                | 21.6              | 28.6                     | 116.7                    |
| 266          | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 504,140            | 95.5           | 18             | 13            | 100            | 423,740                      | 488,420            | 0           | 14        | 54,060            | 14             | 142            | 12.4            | 40.2            | 201.4                | 32.8              | 28.6                     | 115.1                    |
| 267          | 1,3,4,7,10,12,13,17,20,23,26,27,30,32,35,43,44   | 499,770            | 94.7           | 16             | 13            | 101            | 448,830                      | 496,300            | 0           | 11        | 20,220            | 13             | 143            | 10.8            | 39.3            | 88.3                 | 25.0              | 28.6                     | 103.5                    |
| 268          | 1,3,4,7,10,12,13,17,20,23,26,28,33,43,44   | 506,670            | 96<br>101.2    | 15<br>16       | 13            | 103            | 413,870                      | 503,210            | 0           | 11        | 20,220<br>69,380  | 13             | 161            | 15.2            | 44.8            | 88.3                 | 25.0              | 28.6                     | 114.7                    |
| 269<br>270   | 1,3,4,7,10,12,13,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,7,10,12,13,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44              | 534,220<br>542,090 | 101.2          | 16<br>18       | 10<br>10      | 102<br>105     | 475,830<br>483,700           | 520,780<br>521,220 | 0           | 10<br>10  | 65,450            | 10<br>10       | 157<br>158     | 15.9<br>13.3    | 53.2<br>53.7    | 0.0                  | 0.0               | 28.6<br>28.6             | 210.8<br>210.8           |
| 271          | 1,3,4,7,10,12,13,17,20,24,27,29,37,384,45,46,38E,42,44   | 529,320            | 100.3          | 19             | 10            | 103            | 470,930                      | 518,230            | 0           | 10        | 59,730            | 10             | 159            | 13.2            | 48.4            | 71.6                 | 3.4               | 28.6                     | 206.7                    |
| 272          | 1,3,4,7,10,12,13,17,20,24,27,29,37,38A,45,47,41B,42,44   | 532,280            | 100.8          | 19             | 10            | 105            | 473,890                      | 521,180            | 0           | 10        | 59,890            | 12             | 154            | 14.1            | 48.9            | 141.0                | 11.6              | 28.6                     | 215.0                    |
| 273          | 1,3,4,7,10,12,13,17,20,24,27,29,37,39,41A,41B,42,44  | 528,010            | 100            | 17             | 10            | 108            | 469,620                      | 494,220            | 0           | 10        | 61,990            | 12             | 152            | 15.9            | 49.7            | 146.5                | 21.6              | 28.6                     | 222.3                    |
| 274<br>275   | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 500,020<br>507,890 | 94.7<br>96.2   | 12<br>14       | 12<br>12      | 102<br>105     | 362,620<br>370,490           | 494,560<br>495,000 | 2           | 10<br>10  | 63,500<br>59,570  | 10<br>10       | 170<br>171     | 18.5<br>15.9    | 50.7<br>51.2    | 0.0                  | 0.0               | 28.6<br>28.6             | 79.7<br>79.7             |
| 276          | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44   | 495,120            | 93.8           | 15             | 12            | 103            | 357,720                      | 492,000            | 2           | 10        | 53,860            | 10             | 172            | 15.9            | 45.9            | 71.6                 | 3.4               | 28.6                     | 75.6                     |
| 277          | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44   | 498,080            | 94.3           | 15             | 12            | 105            | 360,680                      | 494,960            | 2           | 10        | 54,020            | 12             | 167            | 16.7            | 46.5            | 141.0                | 11.6              | 28.6                     | 83.9                     |
| 278          | 1,3,4,7,10,12,13,17,20,24,27,30,31,36,37,39,41A,41B,42,44  | 493,810            | 93.5           | 13             | 12            | 108            | 356,410                      | 468,000            | 2           | 10        | 56,110            | 12             | 165            | 18.6            | 47.2            | 146.5                | 21.6              | 28.6                     | 91.2                     |
| 279<br>280   | 1,3,4,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44<br>1,3,4,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44             | 485,280            | 91.9<br>97.7   | 12<br>13       | 13            | 103            | 333,130                      | 469,560            | 0           | 12<br>12  | 54,060<br>63,500  | 12             | 166<br>146     | 15.4<br>15.5    | 41.9<br>48.6    | 201.4<br>0.0         | 32.8<br>0.0       | 28.6<br>28.6             | 89.6<br>103.9            |
| 281          | 1,3,4,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 516,110<br>523,980 | 99.2           | 15             | 12<br>12      | 99<br>102      | 452,090<br>459,960           | 510,640<br>511,090 | 0           | 12        | 59,570            | 12<br>12       | 146            | 12.9            | 49.2            | 0.0                  | 0.0               | 28.6                     | 103.9                    |
| 282          | 1,3,4,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44  | 511,210            | 96.8           | 16             | 12            | 100            | 447,190                      | 508,090            | 0           | 12        | 53,860            | 12             | 148            | 12.8            | 43.9            | 71.6                 | 3.4               | 28.6                     | 99.8                     |
| 283          | 1,3,4,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 514,170            | 97.4           | 16             | 12            | 102            | 450,150                      | 511,050            | 0           | 12        | 54,020            | 14             | 143            | 13.7            | 44.4            | 141.0                | 11.6              | 28.6                     | 108.1                    |
| 284          | 1,3,4,7,10,12,13,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44   | 509,890            | 96.6           | 14             | 12            | 105            | 445,880                      | 484,090            | 0           | 12        | 56,110            | 14             | 141            | 15.6            | 45.2            | 146.5                | 21.6              | 28.6                     | 115.4                    |
| 285<br>286   | 1,3,4,7,10,12,13,17,20,24,27,30,32,34,40,41A,41B,42,44<br>1,3,4,7,10,12,13,17,20,24,27,30,32,35,43,44                                    | 501,370<br>496,990 | 95<br>94.1     | 15<br>13       | 13<br>13      | 100<br>101     | 422,610<br>447,700           | 485,640<br>493,520 | 0           | 14<br>11  | 54,060<br>20,220  | 14<br>13       | 142<br>143     | 12.4<br>10.8    | 39.9<br>39      | 201.4<br>88.3        | 32.8<br>25.0      | 28.6<br>28.6             | 113.8<br>102.2           |
| 287          | 1,3,4,7,10,12,13,17,20,24,28,33,43,44  | 503,900            | 95.4           | 14             | 13            | 103            | 412,740                      | 500,430            | 0           | 11        | 20,220            | 13             | 161            | 15.2            | 44.5            | 88.3                 | 25.0              | 28.6                     | 113.5                    |
| 288          | 1,3,4,7,10,12,14,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 551,330            | 104.4          | 19             | 10            | 103            | 521,600                      | 537,310            | 0           | 10        | 69,380            | 10             | 160            | 17.2            | 53.9            | 0.0                  | 0.0               | 28.6                     | 215.1                    |
| 289          | 1,3,4,7,10,12,14,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 559,210            | 105.9          | 21             | 10            | 106            | 529,470                      | 537,750            | 0           | 10        | 65,450            | 10             | 161            | 14.6            | 54.4            | 0.0                  | 0.0               | 28.6                     | 215.1                    |
| 290<br>291   | 1,3,4,7,10,12,14,16,21,23,26,27,29,37,38A,45,46,38E,42,44<br>1,3,4,7,10,12,14,16,21,23,26,27,29,37,38A,45,47,41B,42,44                   | 546,440<br>549,390 | 103.5<br>104.1 | 22             | 10<br>10      | 104<br>106     | 516,700<br>519,660           | 534,750<br>537,710 | 0           | 10<br>10  | 59,730<br>59,890  | 10<br>12       | 162<br>157     | 14.6<br>15.4    | 49.2<br>49.7    | 71.6<br>141.0        | 3.4<br>11.6       | 28.6<br>28.6             | 211.0<br>219.3           |
| 292          | 1,3,4,7,10,12,14,16,21,23,26,27,29,37,39,41A,41B,42,44   | 545,120            | 103.2          | 20             | 10            | 100            | 515,380                      | 510,750            | 0           | 10        | 61,990            | 12             | 155            | 17.3            | 50.4            | 146.5                | 21.6              | 28.6                     | 226.6                    |
| 293          | 1,3,4,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 517,130            | 97.9           | 15             | 12            | 103            | 408,390                      | 511,080            | 2           | 10        | 63,500            | 10             | 173            | 19.9            | 51.4            | 0.0                  | 0.0               | 28.6                     | 83.9                     |
| 294          | 1,3,4,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 525,010            | 99.4           | 17             | 12            | 106            | 416,260                      | 511,530            | 2           | 10        | 59,570            | 10             | 174            | 17.3            | 52              | 0.0                  | 0.0               | 28.6                     | 83.9                     |
| 295<br>296   | 1,3,4,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44<br>1,3,4,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44       | 512,240            | 97<br>97.6     | 18<br>18       | 12            | 104<br>106     | 403,490<br>406,450           | 508,530<br>511,490 | 2           | 10<br>10  | 53,860<br>54,020  | 10<br>12       | 175<br>170     | 17.3<br>18.1    | 46.7<br>47.2    | 71.6<br>141.0        | 3.4<br>11.6       | 28.6<br>28.6             | 79.8<br>88.2             |
| 296          | 1,3,4,7,10,12,14,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44   | 515,190<br>510,920 | 96.8           | 16             | 12<br>12      | 109            | 406,450                      | 484,530            | 2           | 10        | 56,110            | 12             | 168            | 20              | 47.2            | 141.0                | 21.6              | 28.6                     | 95.4                     |
| 298          | 1,3,4,7,10,12,14,16,21,23,26,27,30,31,40,41A,41B,42,44   | 502,400            | 95.2           | 15             | 13            | 104            | 378,900                      | 486,080            | 2           | 12        | 54,060            | 12             | 169            | 16.8            | 42.7            | 201.4                | 32.8              | 28.6                     | 93.9                     |
| 299          | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 533,220            | 101            | 16             | 12            | 100            | 497,860                      | 527,170            | 0           | 12        | 63,500            | 12             | 149            | 16.8            | 49.4            | 0.0                  | 0.0               | 28.6                     | 108.1                    |
| 300          | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 541,090            | 102.5          | 18             | 12            | 103            | 505,730                      | 527,620            | 0           | 12        | 59,570            | 12             | 150            | 14.2            | 49.9            | 0.0                  | 0.0               | 28.6                     | 108.1                    |
| 301<br>302   | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 | 528,320<br>531,280 | 100.1<br>100.6 | 19<br>19       | 12<br>12      | 101<br>103     | 492,960<br>495,920           | 524,620<br>527,580 | 0           | 12<br>12  | 53,860<br>54,020  | 12<br>14       | 151<br>146     | 14.2<br>15      | 44.6<br>45.2    | 71.6<br>141.0        | 3.4<br>11.6       | 28.6<br>28.6             | 104.0<br>112.4           |
| 303          | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 527,010            | 99.8           | 17             | 12            | 106            | 491,650                      | 500,610            | 0           | 12        | 56,110            | 14             | 144            | 16.9            | 45.9            | 146.5                | 21.6              | 28.6                     | 119.6                    |
| 304          | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,34,40,41A,41B,42,44  | 518,480            | 98.2           | 18             | 13            | 101            | 468,370                      | 502,170            | 0           | 14        | 54,060            | 14             | 145            | 13.7            | 40.6            | 201.4                | 32.8              | 28.6                     | 118.1                    |
| 305          | 1,3,4,7,10,12,14,16,21,23,26,27,30,32,35,43,44   | 514,100            | 97.4           | 16             | 13            | 102            | 493,460                      | 510,050            | 0           | 11        | 20,220            | 13             | 146            | 12.1            | 39.7            | 88.3                 | 25.0              | 28.6                     | 106.5                    |
| 306<br>307   | 1,3,4,7,10,12,14,16,21,23,26,28,33,43,44<br>1,3,4,7,10,12,14,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44                                 | 521,010<br>548,560 | 98.7<br>103.9  | 15<br>18       | 13<br>10      | 104<br>103     | 458,510<br>520,470           | 516,960<br>534,530 | 0           | 11<br>10  | 20,220<br>69,380  | 13<br>10       | 164<br>160     | 16.6<br>17.2    | 45.2<br>53.6    | 88.3<br>0.0          | 25.0<br>0.0       | 28.6<br>28.6             | 117.7<br>213.8           |
| 308          | 1,3,4,7,10,12,14,16,21,24,27,29,37,36A,38B,48,38D,38E,42,44  | 556,430            | 105.4          | 20             | 10            | 106            | 528,340                      | 534,980            | 0           | 10        | 65,450            | 10             | 161            | 14.6            | 54.1            | 0.0                  | 0.0               | 28.6                     | 213.8                    |
| 309          | 1,3,4,7,10,12,14,16,21,24,27,29,37,38A,45,46,38E,42,44   | 543,660            | 103            | 21             | 10            | 104            | 515,570                      | 531,980            | 0           | 10        | 59,730            | 10             | 162            | 14.6            | 48.9            | 71.6                 | 3.4               | 28.6                     | 209.7                    |
| 310          | 1,3,4,7,10,12,14,16,21,24,27,29,37,38A,45,47,41B,42,44   | 546,620            | 103.5          | 21             | 10            | 106            | 518,530                      | 534,940            | 0           | 10        | 59,890            | 12             | 157            | 15.4            | 49.4            | 141.0                | 11.6              | 28.6                     | 218.0                    |
| 311<br>312   | 1,3,4,7,10,12,14,16,21,24,27,29,37,39,41A,41B,42,44<br>1,3,4,7,10,12,14,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44                | 542,350<br>514,360 | 102.7<br>97.4  | 19<br>14       | 10<br>12      | 109<br>103     | 514,250<br>407,260           | 507,980<br>508,310 | 2           | 10<br>10  | 61,990<br>63,500  | 12<br>10       | 155<br>173     | 17.3<br>19.9    | 50.1<br>51.1    | 146.5<br>0.0         | 21.6<br>0.0       | 28.6<br>28.6             | 225.3<br>82.6            |
| 312          | 1,3,4,7,10,12,14,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 522,230            | 98.9           | 16             | 12            | 103            | 415,130                      | 508,750            | 2           | 10        | 59,570            | 10             | 174            | 17.3            | 51.1            | 0.0                  | 0.0               | 28.6                     | 82.6                     |
| 314          | 1,3,4,7,10,12,14,16,21,24,27,30,31,36,37,38A,45,46,38E,42,44   | 509,460            | 96.5           | 17             | 12            | 104            | 402,360                      | 505,760            | 2           | 10        | 53,860            | 10             | 175            | 17.3            | 46.4            | 71.6                 | 3.4               | 28.6                     | 78.6                     |
| 315          | 1,3,4,7,10,12,14,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44   | 512,420            | 97             | 17             | 12            | 106            | 405,320                      | 508,720            | 2           | 10        | 54,020            | 12             | 170            | 18.1            | 46.9            | 141.0                | 11.6              | 28.6                     | 86.9                     |

|              |   | 1                  |                | I              |           |                | 1                            |                    | 1           |           | 1                 | 1 1            |                |              | 1               | 1                    |                   |                          |                          |
|--------------|---|--------------------|----------------|----------------|-----------|----------------|------------------------------|--------------------|-------------|-----------|-------------------|----------------|----------------|--------------|-----------------|----------------------|-------------------|--------------------------|--------------------------|
|              |   |                    |                |                |           |                |                              |                    |             |           |                   |                |                |              |                 |                      |                   |                          |                          |
|              |   |                    |                |                |           | Other          | Length Not<br>Along Existing | Length Not         | Oil/Gas     | Number of | Length<br>Through |                |                |              |                 | Gray Bat<br>Critical | Woodland within   | Eastern<br>Spotted Skunk | Broadhead<br>Skink State |
|              |   | Total              | Total          | Angles Over 30 | Highway   | Roadway        | Transmission                 | Along              | Wells/Tanks | Pipeline  | Previously        | Transmission   | Stream         | Waterbodies  | Wetlands in     |                      | Gray Bat Critical | Critical Habitat         | Critical Habitat         |
| Doute        | Commonte  | Length             | Length         | Degrees        | Crossings | Crossings      | Line<br>(fact)               | Roads              | in ROW      | Crossings | Mined Area        | Line Crossings | Crossings      | in ROW       | ROW             | ROW                  | Habitat in ROW    | in ROW                   | in ROW                   |
| Route<br>316 | Segments<br>1,3,4,7,10,12,14,16,21,24,27,30,31,36,37,39,41A,41B,42,44   | (ft)<br>508,150    | (mi)<br>96.2   | (count)<br>15  | (count)   | (count)<br>109 | (feet)<br>401,040            | (feet)<br>481,750  | (count)     | (count)   | (feet)<br>56,110  | (count)        | (count)<br>168 | (acres)      | (acres)<br>47.6 | (acres)<br>146.5     | (acres)<br>21.6   | (acres)<br>28.6          | (acres)<br>94.2          |
| 317          | 1,3,4,7,10,12,14,16,21,24,27,30,31,40,41A,41B,42,44   | 499,620            | 94.6           | 14             | 13        | 104            | 377,770                      | 483,310            | 2           | 12        | 54,060            | 12             | 169            | 16.8         | 42.3            | 201.4                | 32.8              | 28.6                     | 92.6                     |
| 318          | 1,3,4,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 530,450            | 100.5          | 15             | 12        | 100            | 496,730                      | 524,400            | 0           | 12        | 63,500            | 12             | 149            | 16.8         | 49.1            | 0.0                  | 0.0               | 28.6                     | 106.8                    |
| 319<br>320   | 1,3,4,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1,3,4,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44 | 538,320<br>525,550 | 102<br>99.5    | 17<br>18       | 12<br>12  | 103<br>101     | 504,600<br>491,830           | 524,840<br>521,840 | 0           | 12<br>12  | 59,570<br>53,860  | 12<br>12       | 150<br>151     | 14.2<br>14.2 | 49.6<br>44.3    | 0.0<br>71.6          | 0.0<br>3.4        | 28.6<br>28.6             | 106.8<br>102.8           |
| 321          | 1,3,4,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44   | 528,510            | 100.1          | 18             | 12        | 103            | 491,830                      | 524,800            | 0           | 12        | 54,020            | 14             | 146            | 15           | 44.9            | 141.0                | 11.6              | 28.6                     | 111.1                    |
| 322          | 1,3,4,7,10,12,14,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44  | 524,230            | 99.3           | 16             | 12        | 106            | 490,520                      | 497,840            | 0           | 12        | 56,110            | 14             | 144            | 16.9         | 45.6            | 146.5                | 21.6              | 28.6                     | 118.4                    |
| 323          | 1,3,4,7,10,12,14,16,21,24,27,30,32,34,40,41A,41B,42,44  | 515,710            | 97.7           | 17             | 13        | 101            | 467,240                      | 499,400            | 0           | 14        | 54,060            | 14             | 145            | 13.7         | 40.3            | 201.4                | 32.8              | 28.6                     | 116.8                    |
| 324<br>325   | 1,3,4,7,10,12,14,16,21,24,27,30,32,35,43,44<br>1,3,4,7,10,12,14,16,21,24,28,33,43,44  | 511,330<br>518,240 | 96.8<br>98.2   | 15<br>16       | 13<br>13  | 102<br>104     | 492,330<br>457,370           | 507,280<br>514,180 | 0           | 11<br>11  | 20,220<br>20,220  | 13<br>13       | 146<br>164     | 12.1<br>16.6 | 39.4<br>44.9    | 88.3<br>88.3         | 25.0<br>25.0      | 28.6<br>28.6             | 105.2<br>116.4           |
| 326          | 1,3,4,7,10,12,14,16,22,33,43,44   | 494,270            | 93.6           | 14             | 13        | 106            | 476,680                      | 490,220            | 2           | 11        | 20,220            | 11             | 150            | 15.7         | 43.7            | 88.3                 | 25.0              | 28.6                     | 105.4                    |
| 327          | 1,3,4,7,11,15,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 559,390            | 105.9          | 20             | 10        | 103            | 498,820                      | 527,490            | 0           | 11        | 69,380            | 10             | 171            | 13.8         | 52.4            | 0.0                  | 0.0               | 26.2                     | 246.1                    |
| 328<br>329   | 1,3,4,7,11,15,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,3,4,7,11,15,17,18,19,25,26,27,29,37,38A,45,46,38E,42,44             | 567,260<br>554,490 | 107.4<br>105   | 22             | 10<br>10  | 106<br>104     | 506,700<br>493,930           | 527,940<br>524,940 | 0           | 11<br>11  | 65,450<br>59,730  | 10<br>10       | 172<br>173     | 11.2<br>11.2 | 52.9<br>47.7    | 0.0<br>71.6          | 0.0<br>3.4        | 26.2<br>26.2             | 246.1<br>242.0           |
| 330          | 1,3,4,7,11,15,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 557,450            | 105.6          | 23             | 10        | 104            | 496,880                      | 527,900            | 0           | 11        | 59,890            | 12             | 168            | 12           | 48.2            | 141.0                | 11.6              | 26.2                     | 250.3                    |
| 331          | 1,3,4,7,11,15,17,18,19,25,26,27,29,37,39,41A,41B,42,44  | 553,180            | 104.8          | 21             | 10        | 109            | 492,610                      | 500,940            | 0           | 11        | 61,990            | 12             | 166            | 13.9         | 48.9            | 146.5                | 21.6              | 26.2                     | 257.6                    |
| 332          | 1,3,4,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 525,190            | 99.5           | 16             | 12        | 103            | 385,610                      | 501,270            | 2           | 11        | 63,500            | 10             | 184            | 16.5         | 49.9            | 0.0                  | 0.0               | 26.2                     | 115.0                    |
| 333<br>334   | 1,3,4,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44<br>1,3,4,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44 | 533,060<br>520,290 | 101<br>98.5    | 18<br>19       | 12<br>12  | 106<br>104     | 393,490<br>380,720           | 501,710<br>498,720 | 2           | 11<br>11  | 59,570<br>53,860  | 10<br>10       | 185<br>186     | 13.9<br>13.9 | 50.5<br>45.2    | 0.0<br>71.6          | 0.0<br>3.4        | 26.2<br>26.2             | 115.0<br>110.9           |
| 335          | 1,3,4,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 523,250            | 99.1           | 19             | 12        | 106            | 383,670                      | 501,670            | 2           | 11        | 54,020            | 12             | 181            | 14.7         | 45.7            | 141.0                | 11.6              | 26.2                     | 119.2                    |
| 336          | 1,3,4,7,11,15,17,18,19,25,26,27,30,31,36,37,39,41A,41B,42,44  | 518,980            | 98.3           | 17             | 12        | 109            | 379,400                      | 474,710            | 2           | 11        | 56,110            | 12             | 179            | 16.6         | 46.5            | 146.5                | 21.6              | 26.2                     | 126.5                    |
| 337<br>338   | 1,3,4,7,11,15,17,18,19,25,26,27,30,31,40,41A,41B,42,44<br>1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44      | 510,450<br>541,280 | 96.7<br>102.5  | 16<br>17       | 13<br>12  | 104<br>100     | 356,130<br>475,090           | 476,270<br>517,360 | 0           | 13<br>13  | 54,060<br>63,500  | 12<br>12       | 180<br>160     | 13.4<br>13.5 | 41.2<br>47.9    | 201.4<br>0.0         | 32.8<br>0.0       | 26.2<br>26.2             | 124.9<br>139.2           |
| 339          | 1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 549,150            | 102.5          | 19             | 12        | 103            | 482,960                      | 517,800            | 0           | 13        | 59,570            | 12             | 161            | 10.9         | 48.4            | 0.0                  | 0.0               | 26.2                     | 139.2                    |
| 340          | 1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 536,380            | 101.6          | 20             | 12        | 101            | 470,190                      | 514,800            | 0           | 13        | 53,860            | 12             | 162            | 10.8         | 43.1            | 71.6                 | 3.4               | 26.2                     | 135.1                    |
| 341          | 1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 539,340            | 102.1          | 20             | 12        | 103            | 473,150                      | 517,760            | 0           | 13        | 54,020            | 14             | 157            | 11.7         | 43.7            | 141.0                | 11.6              | 26.2                     | 143.4                    |
| 342<br>343   | 1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,3,4,7,11,15,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44            | 535,070<br>526,540 | 101.3<br>99.7  | 18<br>19       | 12<br>13  | 106<br>101     | 468,880<br>445,600           | 490,800<br>492,360 | 0           | 13<br>15  | 56,110<br>54,060  | 14<br>14       | 155<br>156     | 13.5<br>10.3 | 44.4<br>39.1    | 146.5<br>201.4       | 21.6<br>32.8      | 26.2<br>26.2             | 150.7<br>149.1           |
| 344          | 1,3,4,7,11,15,17,18,19,25,26,27,30,32,35,43,44  | 522,160            | 98.9           | 17             | 13        | 102            | 470,690                      | 500,240            | 0           | 12        | 20,220            | 13             | 157            | 8.8          | 38.2            | 88.3                 | 25.0              | 26.2                     | 137.5                    |
| 345          | 1,3,4,7,11,15,17,18,19,25,26,28,33,43,44  | 529,070            | 100.2          | 16             | 13        | 104            | 435,730                      | 507,140            | 0           | 12        | 20,220            | 13             | 175            | 13.2         | 43.7            | 88.3                 | 25.0              | 26.2                     | 148.7                    |
| 346<br>347   | 1,3,4,7,11,15,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,7,11,15,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44             | 542,420<br>550,290 | 102.7<br>104.2 | 21 23          | 10<br>10  | 103<br>106     | 482,380<br>490,250           | 528,980<br>529,420 | 0           | 11<br>11  | 69,380<br>65,450  | 10<br>10       | 156<br>157     | 14.1<br>11.5 | 51<br>51.5      | 0.0                  | 0.0               | 26.2<br>26.2             | 212.1<br>212.1           |
| 348          | 1,3,4,7,11,15,17,20,23,26,27,29,37,36A,36D,46,36D,36E,42,44<br>1,3,4,7,11,15,17,20,23,26,27,29,37,38A,45,46,38E,42,44                   | 537,520            | 104.2          | 24             | 10        | 104            | 490,230                      | 526,420            | 0           | 11        | 59,730            | 10             | 158            | 11.4         | 46.2            | 71.6                 | 3.4               | 26.2                     | 208.0                    |
| 349          | 1,3,4,7,11,15,17,20,23,26,27,29,37,38A,45,47,41B,42,44  | 540,480            | 102.4          | 24             | 10        | 106            | 480,440                      | 529,380            | 0           | 11        | 59,890            | 12             | 153            | 12.3         | 46.8            | 141.0                | 11.6              | 26.2                     | 216.3                    |
| 350          | 1,3,4,7,11,15,17,20,23,26,27,29,37,39,41A,41B,42,44   | 536,200            | 101.6          | 22             | 10        | 109            | 476,170                      | 502,420            | 0           | 11        | 61,990            | 12             | 151            | 14.1         | 47.5            | 146.5                | 21.6              | 26.2                     | 223.6                    |
| 351<br>352   | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1.3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 | 508,220<br>516,090 | 96.3<br>97.7   | 17<br>19       | 12<br>12  | 103<br>106     | 369,170<br>377,040           | 502,750<br>503,200 | 2           | 11<br>11  | 63,500<br>59,570  | 10<br>10       | 169<br>170     | 16.7<br>14.1 | 48.5<br>49      | 0.0                  | 0.0               | 26.2<br>26.2             | 81.0<br>81.0             |
| 353          | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 503,320            | 95.3           | 20             | 12        | 104            | 364,270                      | 500,200            | 2           | 11        | 53,860            | 10             | 171            | 14.1         | 43.8            | 71.6                 | 3.4               | 26.2                     | 76.9                     |
| 354          | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44  | 506,280            | 95.9           | 20             | 12        | 106            | 367,230                      | 503,160            | 2           | 11        | 54,020            | 12             | 166            | 14.9         | 44.3            | 141.0                | 11.6              | 26.2                     | 85.2                     |
| 355<br>356   | 1,3,4,7,11,15,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44<br>1,3,4,7,11,15,17,20,23,26,27,30,31,40,41A,41B,42,44                        | 502,000<br>493,480 | 95.1<br>93.5   | 18<br>17       | 12<br>13  | 109<br>104     | 362,960<br>339,690           | 476,200<br>477,750 | 2           | 11<br>13  | 56,110<br>54,060  | 12<br>12       | 164<br>165     | 16.8<br>13.6 | 45<br>39.7      | 146.5<br>201.4       | 21.6<br>32.8      | 26.2<br>26.2             | 92.5<br>90.9             |
| 357          | 1,3,4,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 524,300            | 99.3           | 18             | 12        | 100            | 458,640                      | 518,840            | 0           | 13        | 63,500            | 12             | 145            | 13.7         | 46.5            | 0.0                  | 0.0               | 26.2                     | 105.2                    |
| 358          | 1,3,4,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 532,180            | 100.8          | 20             | 12        | 103            | 466,520                      | 519,280            | 0           | 13        | 59,570            | 12             | 146            | 11.1         | 47              | 0.0                  | 0.0               | 26.2                     | 105.2                    |
| 359          | 1,3,4,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44   | 519,410            | 98.4           | 21             | 12        | 101            | 453,750                      | 516,290            | 0           | 13        | 53,860            | 12             | 147            | 11           | 41.7            | 71.6                 | 3.4               | 26.2                     | 101.1                    |
| 360<br>361   | 1,3,4,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,4,7,11,15,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44         | 522,360<br>518,090 | 98.9<br>98.1   | 21<br>19       | 12<br>12  | 103<br>106     | 456,700<br>452,430           | 519,240<br>492,280 | 0           | 13<br>13  | 54,020<br>56,110  | 14<br>14       | 142<br>140     | 11.9<br>13.8 | 42.3<br>43      | 141.0<br>146.5       | 11.6<br>21.6      | 26.2<br>26.2             | 109.4<br>116.7           |
| 362          | 1,3,4,7,11,15,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 509,570            | 96.5           | 20             | 13        | 101            | 429,160                      | 493,840            | 0           | 15        | 54,060            | 14             | 141            | 10.6         | 37.7            | 201.4                | 32.8              | 26.2                     | 115.1                    |
| 363          | 1,3,4,7,11,15,17,20,23,26,27,30,32,35,43,44   | 505,190            | 95.7           | 18             | 13        | 102            | 454,250                      | 501,720            | 0           | 12        | 20,220            | 13             | 142            | 9            | 36.8            | 88.3                 | 25.0              | 26.2                     | 103.5                    |
| 364<br>365   | 1,3,4,7,11,15,17,20,23,26,28,33,43,44<br>1,3,4,7,11,15,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44                                      | 512,100            | 97<br>102.2    | 17<br>18       | 13<br>10  | 104<br>103     | 419,290<br>481,250           | 508,630<br>526,200 | 0           | 12        | 20,220<br>69,380  | 13<br>10       | 160<br>156     | 13.4<br>14.1 | 42.3<br>50.7    | 88.3<br>0.0          | 25.0<br>0.0       | 26.2<br>26.2             | 114.7<br>210.8           |
| 366          | 1,3,4,7,11,15,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,4,7,11,15,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44                   | 539,640<br>547,520 | 102.2          | 20             | 10        | 103            | 481,250<br>489,120           | 526,200            | 0           | 11<br>11  | 65,450            | 10             | 156            | 11.5         | 51.2            | 0.0                  | 0.0               | 26.2                     | 210.8                    |
| 367          | 1,3,4,7,11,15,17,20,24,27,29,37,38A,45,46,38E,42,44   | 534,750            | 101.3          | 21             | 10        | 104            | 476,350                      | 523,650            | 0           | 11        | 59,730            | 10             | 158            | 11.4         | 45.9            | 71.6                 | 3.4               | 26.2                     | 206.7                    |
| 368          | 1,3,4,7,11,15,17,20,24,27,29,37,38A,45,47,41B,42,44   | 537,700            | 101.8          | 21             | 10        | 106            | 479,310                      | 526,610            | 0           | 11        | 59,890            | 12             | 153            | 12.3         | 46.5            | 141.0                | 11.6              | 26.2                     | 215.0                    |
| 369<br>370   | 1,3,4,7,11,15,17,20,24,27,29,37,39,41A,41B,42,44<br>1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44                     | 533,430<br>505,440 | 101<br>95.7    | 19<br>14       | 10<br>12  | 109<br>103     | 475,040<br>368,040           | 499,650<br>499,980 | 2           | 11<br>11  | 61,990<br>63,500  | 12<br>10       | 151<br>169     | 14.1<br>16.7 | 47.2<br>48.2    | 146.5<br>0.0         | 21.6<br>0.0       | 26.2<br>26.2             | 222.3<br>79.7            |
| 371          | 1,3,4,7,11,15,17,20,24,27,30,31,30,37,36A,36D,36C,36D,36E,42,44   | 513,310            | 97.2           | 16             | 12        | 106            | 375,910                      | 500,420            | 2           | 11        | 59,570            | 10             | 170            | 14.1         | 48.7            | 0.0                  | 0.0               | 26.2                     | 79.7                     |
| 372          | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44   | 500,540            | 94.8           | 17             | 12        | 104            | 363,140                      | 497,430            | 2           | 11        | 53,860            | 10             | 171            | 14.1         | 43.5            | 71.6                 | 3.4               | 26.2                     | 75.6                     |
| 373          | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44   | 503,500            | 95.4           | 17             | 12        | 106            | 366,100                      | 500,380            | 2           | 11        | 54,020            | 12             | 166            | 14.9         | 44              | 141.0                | 11.6              | 26.2                     | 83.9                     |
| 374<br>375   | 1,3,4,7,11,15,17,20,24,27,30,31,36,37,39,41A,41B,42,44<br>1,3,4,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44                              | 499,230<br>490,700 | 94.6<br>92.9   | 15<br>14       | 12<br>13  | 109<br>104     | 361,830<br>338,550           | 473,420<br>474,980 | 2           | 11<br>13  | 56,110<br>54,060  | 12<br>12       | 164<br>165     | 16.8<br>13.6 | 44.7<br>39.4    | 146.5<br>201.4       | 21.6<br>32.8      | 26.2<br>26.2             | 91.2<br>89.6             |
| 376          | 1,3,4,7,11,15,17,20,24,27,30,31,40,412,445<br>1,3,4,7,11,15,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44                        | 521,530            | 98.8           | 15             | 12        | 100            | 457,510                      | 516,070            | 0           | 13        | 63,500            | 12             | 145            | 13.7         | 46.2            | 0.0                  | 0.0               | 26.2                     | 103.9                    |
| 377          | 1,3,4,7,11,15,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 529,400            | 100.3          | 17             | 12        | 103            | 465,390                      | 516,510            | 0           | 13        | 59,570            | 12             | 146            | 11.1         | 46.7            | 0.0                  | 0.0               | 26.2                     | 103.9                    |
| 378          | 1,3,4,7,11,15,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44  | 516,630            | 97.8           | 18             | 12        | 101            | 452,620                      | 513,510            | 0           | 13        | 53,860            | 12             | 147            | 11           | 41.4            | 71.6                 | 3.4               | 26.2                     | 99.8                     |

|            |   |                    |                |                    |          |                      |                              |                    |                   | 1                    |                      |                           |                      |                   | 1              |                      |                           |                          |                          |
|------------|---|--------------------|----------------|--------------------|----------|----------------------|------------------------------|--------------------|-------------------|----------------------|----------------------|---------------------------|----------------------|-------------------|----------------|----------------------|---------------------------|--------------------------|--------------------------|
|            |   |                    |                |                    |          |                      | Laurath Nat                  |                    |                   |                      | 1 4 h                |                           |                      |                   |                | C D-4                |                           | Factoria                 | Book allowed             |
|            |   |                    |                |                    |          | Other                | Length Not<br>Along Existing | Length Not         | Oil/Gas           | Number of            | Length<br>Through    |                           |                      |                   |                | Gray Bat<br>Critical | Woodland within           | Eastern<br>Spotted Skunk | Broadhead<br>Skink State |
|            |   | Total              | Total          | Angles Over 30     |          | Roadway              | Transmission                 | Along              | Wells/Tanks       | · -                  |                      | Transmission              | Stream               | Waterbodies       |                | Habitat in           | Gray Bat Critical         |                          | Critical Habitat         |
| Route      | Segments  | Length<br>(ft)     | Length<br>(mi) | Degrees<br>(count) | (count)  | Crossings<br>(count) | Line<br>(feet)               | Roads<br>(feet)    | in ROW<br>(count) | Crossings<br>(count) | Mined Area<br>(feet) | Line Crossings<br>(count) | Crossings<br>(count) | in ROW<br>(acres) | ROW<br>(acres) | ROW<br>(acres)       | Habitat in ROW<br>(acres) | in ROW<br>(acres)        | in ROW<br>(acres)        |
| 379        | 1,3,4,7,11,15,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 519,590            | 98.4           | 18                 | 12       | 103                  | 455,570                      | 516,470            | 0                 | 13                   | 54,020               | 14                        | 142                  | 11.9              | 42             | 141.0                | 11.6                      | 26.2                     | 108.1                    |
| 380        | 1,3,4,7,11,15,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44   | 515,320            | 97.6           | 16                 | 12       | 106                  | 451,300                      | 489,510            | 0                 | 13                   | 56,110               | 14                        | 140                  | 13.8              | 42.7           | 146.5                | 21.6                      | 26.2                     | 115.4                    |
| 381<br>382 | 1,3,4,7,11,15,17,20,24,27,30,32,34,40,41A,41B,42,44   | 506,790<br>502,410 | 96<br>95.2     | 17<br>15           | 13<br>13 | 101<br>102           | 428,030<br>453,120           | 491,060<br>498,950 | 0                 | 15<br>12             | 54,060<br>20,220     | 14                        | 141<br>142           | 10.6<br>9         | 37.4<br>36.5   | 201.4<br>88.3        | 32.8<br>25.0              | 26.2<br>26.2             | 113.8<br>102.2           |
| 383        | 1,3,4,7,11,15,17,20,24,27,30,32,35,43,44<br>1,3,4,7,11,15,17,20,24,28,33,43,44  | 509,320            | 96.5           | 16                 | 13       | 102                  | 418,160                      | 505,850            | 0                 | 12                   | 20,220               | 13                        | 160                  | 13.4              | 42             | 88.3                 | 25.0                      | 26.2                     | 113.5                    |
| 384        | 1,3,4,7,11,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 554,500            | 105            | 20                 | 10       | 104                  | 524,760                      | 544,170            | 0                 | 11                   | 69,380               | 10                        | 158                  | 15.4              | 51.2           | 0.0                  | 0.0                       | 26.2                     | 215.1                    |
| 385        | 1,3,4,7,11,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44  | 562,370            | 106.5          | 22                 | 10       | 107                  | 532,630                      | 544,620            | 0                 | 11                   | 65,450               | 10                        | 159                  | 12.8              | 51.8           | 0.0                  | 0.0                       | 26.2                     | 215.1                    |
| 386        | 1,3,4,7,11,16,21,23,26,27,29,37,38A,45,46,38E,42,44   | 549,600            | 104.1          | 23                 | 10       | 105                  | 519,860                      | 541,620            | 0                 | 11                   | 59,730               | 10                        | 160                  | 12.8              | 46.5           | 71.6                 | 3.4                       | 26.2                     | 211.0                    |
| 387<br>388 | 1,3,4,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44<br>1,3,4,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44                         | 552,560<br>548,290 | 104.7<br>103.8 | 23<br>21           | 10<br>10 | 107<br>110           | 522,820<br>518,550           | 544,580<br>517,620 | 0                 | 11<br>11             | 59,890<br>61,990     | 12<br>12                  | 155<br>153           | 13.6<br>15.5      | 47<br>47.7     | 141.0<br>146.5       | 11.6<br>21.6              | 26.2<br>26.2             | 219.3<br>226.6           |
| 389        | 1,3,4,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 520,300            | 98.5           | 16                 | 12       | 104                  | 411,550                      | 517,950            | 2                 | 11                   | 63,500               | 10                        | 171                  | 18.1              | 48.7           | 0.0                  | 0.0                       | 26.2                     | 83.9                     |
| 390        | 1,3,4,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 528,170            | 100            | 18                 | 12       | 107                  | 419,420                      | 518,400            | 2                 | 11                   | 59,570               | 10                        | 172                  | 15.5              | 49.3           | 0.0                  | 0.0                       | 26.2                     | 83.9                     |
| 391        | 1,3,4,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44   | 515,400            | 97.6           | 19                 | 12       | 105                  | 406,650                      | 515,400            | 2                 | 11                   | 53,860               | 10                        | 173                  | 15.5              | 44             | 71.6                 | 3.4                       | 26.2                     | 79.8                     |
| 392<br>393 | 1,3,4,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,3,4,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44             | 518,360<br>514,080 | 98.2<br>97.4   | 19<br>17           | 12       | 107<br>110           | 409,610<br>405,340           | 518,360<br>491,400 | 2                 | 11<br>11             | 54,020<br>56,110     | 12<br>12                  | 168<br>166           | 16.3<br>18.2      | 44.5<br>45.3   | 141.0<br>146.5       | 11.6<br>21.6              | 26.2<br>26.2             | 95.4                     |
| 393        | 1,3,4,7,11,16,21,23,26,27,30,31,30,37,39,41A,416,42,44  | 505,560            | 95.7           | 16                 | 12<br>13 | 105                  | 382,060                      | 491,400            | 2                 | 13                   | 54,060               | 12                        | 167                  | 15.2              | 45.3           | 201.4                | 32.8                      | 26.2                     | 93.9                     |
| 395        | 1,3,4,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 536,380            | 101.6          | 17                 | 12       | 101                  | 501,020                      | 534,040            | 0                 | 13                   | 63,500               | 12                        | 147                  | 15                | 46.7           | 0.0                  | 0.0                       | 26.2                     | 108.1                    |
| 396        | 1,3,4,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 544,260            | 103.1          | 19                 | 12       | 104                  | 508,900                      | 534,480            | 0                 | 13                   | 59,570               | 12                        | 148                  | 12.4              | 47.2           | 0.0                  | 0.0                       | 26.2                     | 108.1                    |
| 397        | 1,3,4,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 531,490            | 100.7          | 20                 | 12       | 102                  | 496,130                      | 531,490            | 0                 | 13                   | 53,860               | 12                        | 149                  | 12.4              | 42             | 71.6                 | 3.4                       | 26.2                     | 104.0                    |
| 398<br>399 | 1,3,4,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,4,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44       | 534,440<br>530,170 | 101.2<br>100.4 | 20<br>18           | 12<br>12 | 104<br>107           | 499,080<br>494,810           | 534,440<br>507,480 | 0                 | 13<br>13             | 54,020<br>56,110     | 14<br>14                  | 144<br>142           | 13.3<br>15.1      | 42.5<br>43.2   | 141.0<br>146.5       | 11.6<br>21.6              | 26.2<br>26.2             | 112.4<br>119.6           |
| 400        | 1,3,4,7,11,16,21,23,26,27,30,32,34,40,418,416,42,44   | 521,650            | 98.8           | 19                 | 13       | 107                  | 471,540                      | 509,040            | 0                 | 15                   | 54,060               | 14                        | 143                  | 11.9              | 37.9           | 201.4                | 32.8                      | 26.2                     | 119.6                    |
| 401        | 1,3,4,7,11,16,21,23,26,27,30,32,35,43,44  | 517,270            | 98             | 17                 | 13       | 103                  | 496,630                      | 516,920            | 0                 | 12                   | 20,220               | 13                        | 144                  | 10.4              | 37.1           | 88.3                 | 25.0                      | 26.2                     | 106.5                    |
| 402        | 1,3,4,7,11,16,21,23,26,28,33,43,44  | 524,180            | 99.3           | 16                 | 13       | 105                  | 461,670                      | 523,830            | 0                 | 12                   | 20,220               | 13                        | 162                  | 14.8              | 42.5           | 88.3                 | 25.0                      | 26.2                     | 117.7                    |
| 403        | 1,3,4,7,11,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44  | 551,720            | 104.5          | 19                 | 10       | 104                  | 523,630                      | 541,400            | 0                 | 11                   | 69,380               | 10                        | 158                  | 15.4              | 50.9           | 0.0                  | 0.0                       | 26.2                     | 213.8                    |
| 404        | 1,3,4,7,11,16,21,24,27,29,37,38A,38B,48,38D,38E,42,44   | 559,600            | 106            | 21                 | 10       | 107                  | 531,500                      | 541,850            | 0                 | 11                   | 65,450               | 10                        | 159                  | 12.8              | 51.4           | 0.0                  | 0.0                       | 26.2                     | 213.8                    |
| 405<br>406 | 1,3,4,7,11,16,21,24,27,29,37,38A,45,46,38E,42,44<br>1,3,4,7,11,16,21,24,27,29,37,38A,45,47,41B,42,44                            | 546,830<br>549,780 | 103.6<br>104.1 | 22                 | 10<br>10 | 105<br>107           | 518,730<br>521,690           | 538,850<br>541,810 | 0                 | 11<br>11             | 59,730<br>59,890     | 10<br>12                  | 160<br>155           | 12.8<br>13.6      | 46.2<br>46.7   | 71.6<br>141.0        | 3.4<br>11.6               | 26.2<br>26.2             | 209.7<br>218.0           |
| 407        | 1,3,4,7,11,16,21,24,27,29,37,39,41A,41B,42,44   | 545,510            | 103.3          | 20                 | 10       | 110                  | 517,420                      | 514,840            | 0                 | 11                   | 61,990               | 12                        | 153                  | 15.5              | 47.4           | 146.5                | 21.6                      | 26.2                     | 225.3                    |
| 408        | 1,3,4,7,11,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 517,520            | 98             | 15                 | 12       | 104                  | 410,420                      | 515,180            | 2                 | 11                   | 63,500               | 10                        | 171                  | 18.1              | 48.4           | 0.0                  | 0.0                       | 26.2                     | 82.6                     |
| 409        | 1,3,4,7,11,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 525,400            | 99.5           | 17                 | 12       | 107                  | 418,290                      | 515,620            | 2                 | 11                   | 59,570               | 10                        | 172                  | 15.5              | 49             | 0.0                  | 0.0                       | 26.2                     | 82.6                     |
| 410        | 1,3,4,7,11,16,21,24,27,30,31,36,37,38A,45,46,38E,42,44<br>1,3,4,7,11,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44                | 512,630            | 97.1           | 18<br>18           | 12       | 105                  | 405,520                      | 512,630            | 2 2               | 11<br>11             | 53,860               | 10<br>12                  | 173<br>168           | 15.5<br>16.3      | 43.7<br>44.2   | 71.6                 | 3.4<br>11.6               | 26.2                     | 78.6                     |
| 411        | 1,3,4,7,11,16,21,24,27,30,31,36,37,38A,45,47,416,42,44  | 515,580<br>511,310 | 97.6<br>96.8   | 16                 | 12<br>12 | 107<br>110           | 408,480<br>404,210           | 515,580<br>488,620 | 2                 | 11                   | 54,020<br>56,110     | 12                        | 166                  | 18.2              | 44.2           | 141.0<br>146.5       | 21.6                      | 26.2<br>26.2             | 86.9<br>94.2             |
| 413        | 1,3,4,7,11,16,21,24,27,30,31,40,41A,41B,42,44   | 502,790            | 95.2           | 15                 | 13       | 105                  | 380,930                      | 490,180            | 2                 | 13                   | 54,060               | 12                        | 167                  | 15                | 39.7           | 201.4                | 32.8                      | 26.2                     | 92.6                     |
| 414        | 1,3,4,7,11,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 533,610            | 101.1          | 16                 | 12       | 101                  | 499,890                      | 531,260            | 0                 | 13                   | 63,500               | 12                        | 147                  | 15                | 46.4           | 0.0                  | 0.0                       | 26.2                     | 106.8                    |
| 415        | 1,3,4,7,11,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 541,480            | 102.6          | 18                 | 12       | 104                  | 507,760                      | 531,710            | 0                 | 13                   | 59,570               | 12                        | 148                  | 12.4              | 46.9           | 0.0                  | 0.0                       | 26.2                     | 106.8                    |
| 416<br>417 | 1,3,4,7,11,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,4,7,11,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44          | 528,710<br>531,670 | 100.1<br>100.7 | 19<br>19           | 12<br>12 | 102<br>104           | 494,990<br>497,950           | 528,710<br>531,670 | 0                 | 13<br>13             | 53,860<br>54,020     | 12<br>14                  | 149<br>144           | 12.4<br>13.3      | 41.6<br>42.2   | 71.6<br>141.0        | 3.4<br>11.6               | 26.2<br>26.2             | 102.8<br>111.1           |
| 417        | 1,3,4,7,11,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44  | 527,400            | 99.9           | 17                 | 12       | 104                  | 497,930                      | 504,710            | 0                 | 13                   | 56,110               | 14                        | 142                  | 15.1              | 42.2           | 141.0                | 21.6                      | 26.2                     | 111.1                    |
| 419        | 1,3,4,7,11,16,21,24,27,30,32,34,40,41A,41B,42,44  | 518,870            | 98.3           | 18                 | 13       | 102                  | 470,410                      | 506,260            | 0                 | 15                   | 54,060               | 14                        | 143                  | 11.9              | 37.6           | 201.4                | 32.8                      | 26.2                     | 116.8                    |
| 420        | 1,3,4,7,11,16,21,24,27,30,32,35,43,44   | 514,490            | 97.4           | 16                 | 13       | 103                  | 495,500                      | 514,140            | 0                 | 12                   | 20,220               | 13                        | 144                  | 10.4              | 36.8           | 88.3                 | 25.0                      | 26.2                     | 105.2                    |
| 421        | 1,3,4,7,11,16,21,24,28,33,43,44   | 521,400            | 98.8           | 17                 | 13       | 105                  | 460,540                      | 521,050            | 0                 | 12                   | 20,220               | 13                        | 162                  | 14.8              | 42.2           | 88.3                 | 25.0                      | 26.2                     | 116.4                    |
| 422<br>423 | 1,3,4,7,11,16,22,33,43,44<br>1,3,5,6,8,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 497,440<br>623,550 | 94.2<br>118.1  | 15<br>23           | 13<br>11 | 107<br>103           | 479,840<br>495,330           | 497,090<br>519,670 | 0                 | 12<br>14             | 20,220<br>69,380     | 11                        | 148<br>195           | 13.9<br>13.4      | 41<br>49.6     | 88.3<br>0.0          | 25.0<br>0.0               | 26.2<br>200.6            | 105.4<br>246.1           |
| 424        | 1,3,5,6,8,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44  | 631,420            | 119.6          | 25                 | 11       | 106                  | 503,200                      | 520,110            | 0                 | 14                   | 65,450               | 10                        | 196                  | 10.8              | 50.2           | 0.0                  | 0.0                       | 200.6                    | 246.1                    |
| 425        | 1,3,5,6,8,19,25,26,27,29,37,38A,45,46,38E,42,44   | 618,650            | 117.2          | 26                 | 11       | 104                  | 490,430                      | 517,120            | 0                 | 14                   | 59,730               | 10                        | 197                  | 10.8              | 44.9           | 71.6                 | 3.4                       | 200.6                    | 242.0                    |
| 426        | 1,3,5,6,8,19,25,26,27,29,37,38A,45,47,41B,42,44   | 621,610            | 117.7          | 26                 | 11       | 106                  | 493,390                      | 520,070            | 0                 | 14                   | 59,890               | 12                        | 192                  | 11.6              | 45.4           | 141.0                | 11.6                      | 200.6                    | 250.3                    |
| 427        | 1,3,5,6,8,19,25,26,27,29,37,39,41A,41B,42,44  | 617,340            | 116.9          | 24                 | 11       | 109                  | 489,110                      | 493,110            | 0                 | 14                   | 61,990               | 12                        | 190                  | 13.5              | 46.1           | 146.5                | 21.6                      | 200.6                    | 257.6                    |
| 428<br>429 | 1,3,5,6,8,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,6,8,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44       | 589,350<br>597,220 | 111.6<br>113.1 | 19<br>21           | 13<br>13 | 103<br>106           | 382,110<br>389,990           | 493,450<br>493,890 | 2                 | 14<br>14             | 63,500<br>59,570     | 10<br>10                  | 208<br>209           | 16.1<br>13.5      | 47.1<br>47.7   | 0.0                  | 0.0                       | 200.6<br>200.6           | 115.0<br>115.0           |
| 430        | 1,3,5,6,8,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44<br>1,3,5,6,8,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44             | 597,220            | 113.1          | 21                 | 13       | 106                  | 389,990                      | 493,890            | 2                 | 14                   | 59,570               | 10                        | 210                  | 13.5              | 47.7           | 71.6                 | 3.4                       | 200.6                    | 110.9                    |
| 431        | 1,3,5,6,8,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 587,410            | 111.3          | 22                 | 13       | 106                  | 380,180                      | 493,850            | 2                 | 14                   | 54,020               | 12                        | 205                  | 14.3              | 42.9           | 141.0                | 11.6                      | 200.6                    | 119.2                    |
| 432        | 1,3,5,6,8,19,25,26,27,30,31,36,37,39,41A,41B,42,44  | 583,140            | 110.4          | 20                 | 13       | 109                  | 375,900                      | 466,890            | 2                 | 14                   | 56,110               | 12                        | 203                  | 16.2              | 43.7           | 146.5                | 21.6                      | 200.6                    | 126.5                    |
| 433        | 1,3,5,6,8,19,25,26,27,30,31,40,41B,42,44  | 574,610            | 108.8          | 19                 | 14       | 104                  | 352,630                      | 468,440            | 2                 | 16                   | 54,060               | 12                        | 204                  | 13                | 38.4           | 201.4                | 32.8                      | 200.6                    | 124.9                    |
| 434<br>435 | 1,3,5,6,8,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,6,8,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 | 605,440<br>613,310 | 114.7<br>116.2 | 20<br>22           | 13<br>13 | 100<br>103           | 471,590<br>479,460           | 509,530<br>509,980 | 0                 | 16<br>16             | 63,500<br>59,570     | 12<br>12                  | 184<br>185           | 13<br>10.4        | 45.1<br>45.6   | 0.0                  | 0.0                       | 200.6<br>200.6           | 139.2<br>139.2           |
| 435        | 1,3,5,6,8,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 600,540            | 116.2          | 22                 | 13       | 103                  | 466,690                      | 509,980            | 0                 | 16                   | 59,570               | 12                        | 186                  | 10.4              | 45.6           | 71.6                 | 3.4                       | 200.6                    | 139.2                    |
| 437        | 1,3,5,6,8,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 603,500            | 114.3          | 23                 | 13       | 103                  | 469,650                      | 509,940            | 0                 | 16                   | 54,020               | 14                        | 181                  | 11.2              | 40.9           | 141.0                | 11.6                      | 200.6                    | 143.4                    |
| 438        | 1,3,5,6,8,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44   | 599,220            | 113.5          | 21                 | 13       | 106                  | 465,380                      | 482,970            | 0                 | 16                   | 56,110               | 14                        | 179                  | 13.1              | 41.6           | 146.5                | 21.6                      | 200.6                    | 150.7                    |
| 439        | 1,3,5,6,8,19,25,26,27,30,32,34,40,41A,41B,42,44   | 590,700            | 111.9          | 22                 | 14       | 101                  | 442,100                      | 484,530            | 0                 | 18                   | 54,060               | 14                        | 180                  | 9.9               | 36.3           | 201.4                | 32.8                      | 200.6                    | 149.1                    |
| 440        | 1,3,5,6,8,19,25,26,27,30,32,35,43,44  | 586,320            | 111            | 20                 | 14       | 102                  | 467,190                      | 492,410            | 0                 | 15                   | 20,220               | 13                        | 181                  | 8.4               | 35.5           | 88.3                 | 25.0                      | 200.6                    | 137.5                    |
| 441        | 1,3,5,6,8,19,25,26,28,33,43,44  | 593,230            | 112.4          | 19                 | 14       | 104                  | 432,230                      | 499,320            | 0                 | 15                   | 20,220               | 13                        | 199                  | 12.8              | 40.9           | 88.3                 | 25.0                      | 200.6                    | 148.7                    |

|            |   | 1                  |                | 1              |           |                  | 1                           |                     |                        |                       | 1                     | 1              |            |              | 1            | 1                      | 1                                    |                                   |                              |
|------------|---|--------------------|----------------|----------------|-----------|------------------|-----------------------------|---------------------|------------------------|-----------------------|-----------------------|----------------|------------|--------------|--------------|------------------------|--------------------------------------|-----------------------------------|------------------------------|
|            |   |                    |                |                |           |                  |                             |                     |                        |                       |                       |                |            |              |              |                        |                                      |                                   |                              |
|            |   |                    |                |                |           |                  | Length Not                  |                     |                        |                       | Length                |                |            |              |              | Gray Bat               |                                      | Eastern                           | Broadhead                    |
|            |   | Total              | Total          | Angles Over 30 | Highway   | Other<br>Roadway | Along Existing Transmission | Length Not<br>Along | Oil/Gas<br>Wells/Tanks | Number of<br>Pipeline | Through<br>Previously | Transmission   | Stream     | Waterbodies  | Wetlands in  | Critical<br>Habitat in | Woodland within<br>Gray Bat Critical | Spotted Skunk<br>Critical Habitat | Skink State Critical Habitat |
|            |   | Length             | Length         | Degrees        | Crossings | Crossings        | Line                        | Roads               | in ROW                 | Crossings             | Mined Area            | Line Crossings | Crossings  | in ROW       | ROW          | ROW                    | Habitat in ROW                       | in ROW                            | in ROW                       |
| Route      | Segments  | (ft)               | (mi)           | (count)        | (count)   | (count)          | (feet)                      | (feet)              | (count)                | (count)               | (feet)                | (count)        | (count)    | (acres)      | (acres)      | (acres)                | (acres)                              | (acres)                           | (acres)                      |
| 442        | 1,3,5,6,9,12,13,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 574,340            | 108.8          | 23             | 10        | 99               | 496,550                     | 534,830             | 1                      | 10                    | 69,380                | 11             | 181        | 13.1         | 51.1         | 0.0                    | 0.0                                  | 60.3                              | 246.1                        |
| 443<br>444 | 1,3,5,6,9,12,13,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,3,5,6,9,12,13,17,18,19,25,26,27,29,37,38A,45,46,38E,42,44     | 582,210<br>569,440 | 110.3<br>107.8 | 25<br>26       | 10<br>10  | 102<br>100       | 504,420<br>491,650          | 535,280<br>532,280  | 1                      | 10<br>10              | 65,450<br>59,730      | 11<br>11       | 182<br>183 | 10.5<br>10.5 | 51.6<br>46.3 | 0.0<br>71.6            | 0.0<br>3.4                           | 60.3<br>60.3                      | 246.1<br>242.0               |
| 444        | 1,3,5,6,9,12,13,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 572,400            | 107.8          | 26             | 10        | 100              | 491,630                     | 535,240             | 1                      | 10                    | 59,730                | 13             | 178        | 11.4         | 46.9         | 141.0                  | 11.6                                 | 60.3                              | 250.3                        |
| 446        | 1,3,5,6,9,12,13,17,18,19,25,26,27,29,37,39,41A,41B,42,44  | 568,120            | 107.6          | 24             | 10        | 105              | 490,330                     | 508,270             | 1                      | 10                    | 61,990                | 13             | 176        | 13.2         | 47.6         | 146.5                  | 21.6                                 | 60.3                              | 257.6                        |
| 447        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 540,130            | 102.3          | 19             | 12        | 99               | 383,340                     | 508,610             | 3                      | 10                    | 63,500                | 11             | 194        | 15.8         | 48.6         | 0.0                    | 0.0                                  | 60.3                              | 115.0                        |
| 448        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 548,010            | 103.8          | 21             | 12        | 102              | 391,210                     | 509,050             | 3                      | 10                    | 59,570                | 11             | 195        | 13.2         | 49.1         | 0.0                    | 0.0                                  | 60.3                              | 115.0                        |
| 449        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44   | 535,240            | 101.4          | 22             | 12        | 100              | 378,440                     | 506,060             | 3                      | 10                    | 53,860                | 11             | 196        | 13.2         | 43.9         | 71.6                   | 3.4                                  | 60.3                              | 110.9                        |
| 450<br>451 | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,36,37,39,41A,41B,42,44 | 538,190<br>533,920 | 101.9<br>101.1 | 22             | 12<br>12  | 102<br>105       | 381,400<br>377,120          | 509,010<br>482,050  | 3                      | 10<br>10              | 54,020<br>56,110      | 13<br>13       | 191<br>189 | 14<br>15.9   | 44.4<br>45.1 | 141.0<br>146.5         | 11.6<br>21.6                         | 60.3<br>60.3                      | 119.2<br>126.5               |
| 452        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,31,40,41A,41B,42,44  | 525,400            | 99.5           | 19             | 13        | 100              | 353,850                     | 483,610             | 3                      | 12                    | 54,060                | 13             | 190        | 12.7         | 39.8         | 201.4                  | 32.8                                 | 60.3                              | 124.9                        |
| 453        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 556,220            | 105.3          | 20             | 12        | 96               | 472,810                     | 524,690             | 1                      | 12                    | 63,500                | 13             | 170        | 12.8         | 46.6         | 0.0                    | 0.0                                  | 60.3                              | 139.2                        |
| 454        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 564,090            | 106.8          | 22             | 12        | 99               | 480,680                     | 525,140             | 1                      | 12                    | 59,570                | 13             | 171        | 10.2         | 47.1         | 0.0                    | 0.0                                  | 60.3                              | 139.2                        |
| 455        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 551,320            | 104.4          | 23             | 12        | 97               | 467,910                     | 522,140             | 1                      | 12                    | 53,860                | 13             | 172        | 10.1         | 41.8         | 71.6                   | 3.4                                  | 60.3                              | 135.1                        |
| 456<br>457 | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 554,280            | 105<br>104.2   | 23             | 12        | 99<br>102        | 470,870                     | 525,100             | 1                      | 12<br>12              | 54,020<br>56,110      | 15<br>15       | 167<br>165 | 11<br>12.8   | 42.3         | 141.0<br>146.5         | 11.6<br>21.6                         | 60.3<br>60.3                      | 143.4<br>150.7               |
| 457<br>458 | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44<br>1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44    | 550,010<br>541,480 | 104.2          | 21<br>22       | 12<br>13  | 97               | 466,600<br>443,320          | 498,140<br>499,690  | 1                      | 12                    | 56,110<br>54,060      | 15             | 165        | 9.6          | 43.1<br>37.8 | 201.4                  | 32.8                                 | 60.3                              | 150.7                        |
| 459        | 1,3,5,6,9,12,13,17,18,19,25,26,27,30,32,35,40,41,41,418,42,44   | 537,110            | 102.0          | 20             | 13        | 98               | 468,410                     | 507,570             | 1                      | 11                    | 20,220                | 14             | 167        | 8.1          | 36.9         | 88.3                   | 25.0                                 | 60.3                              | 137.5                        |
| 460        | 1,3,5,6,9,12,13,17,18,19,25,26,28,33,43,44  | 544,010            | 103            | 19             | 13        | 100              | 433,450                     | 514,480             | 1                      | 11                    | 20,220                | 14             | 185        | 12.5         | 42.4         | 88.3                   | 25.0                                 | 60.3                              | 148.7                        |
| 461        | 1,3,5,6,9,12,13,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 557,360            | 105.6          | 24             | 10        | 99               | 480,100                     | 536,320             | 1                      | 10                    | 69,380                | 11             | 166        | 13.4         | 49.7         | 0.0                    | 0.0                                  | 60.3                              | 212.1                        |
| 462        | 1,3,5,6,9,12,13,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 565,230            | 107.1          | 26             | 10        | 102              | 487,980                     | 536,760             | 1                      | 10                    | 65,450                | 11             | 167        | 10.8         | 50.2         | 0.0                    | 0.0                                  | 60.3                              | 212.1                        |
| 463        | 1,3,5,6,9,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44  | 552,460            | 104.6          | 27             | 10        | 100              | 475,210                     | 533,760             | 1                      | 10                    | 59,730                | 11             | 168        | 10.7         | 44.9         | 71.6                   | 3.4                                  | 60.3                              | 208.0                        |
| 464<br>465 | 1,3,5,6,9,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44<br>1,3,5,6,9,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44                   | 555,420<br>551,150 | 105.2<br>104.4 | 27<br>25       | 10<br>10  | 102<br>105       | 478,160<br>473,890          | 536,720<br>509,760  | 1                      | 10<br>10              | 59,890<br>61,990      | 13<br>13       | 163<br>161 | 11.6<br>13.4 | 45.5<br>46.2 | 141.0<br>146.5         | 11.6<br>21.6                         | 60.3<br>60.3                      | 216.3<br>223.6               |
| 466        | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 523,160            | 99.1           | 20             | 12        | 99               | 366,890                     | 510,090             | 3                      | 10                    | 63,500                | 11             | 179        | 16           | 47.2         | 0.0                    | 0.0                                  | 60.3                              | 81.0                         |
| 467        | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 531,030            | 100.6          | 22             | 12        | 102              | 374,770                     | 510,540             | 3                      | 10                    | 59,570                | 11             | 180        | 13.4         | 47.7         | 0.0                    | 0.0                                  | 60.3                              | 81.0                         |
| 468        | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 518,260            | 98.2           | 23             | 12        | 100              | 362,000                     | 507,540             | 3                      | 10                    | 53,860                | 11             | 181        | 13.4         | 42.5         | 71.6                   | 3.4                                  | 60.3                              | 76.9                         |
| 469        | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44  | 521,220            | 98.7           | 23             | 12        | 102              | 364,950                     | 510,500             | 3                      | 10                    | 54,020                | 13             | 176        | 14.2         | 43           | 141.0                  | 11.6                                 | 60.3                              | 85.2                         |
| 470        | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44   | 516,950            | 97.9           | 21             | 12        | 105              | 360,680                     | 483,540             | 3                      | 10                    | 56,110                | 13             | 174        | 16.1         | 43.7         | 146.5                  | 21.6                                 | 60.3                              | 92.5                         |
| 471<br>472 | 1,3,5,6,9,12,13,17,20,23,26,27,30,31,40,41A,41B,42,44<br>1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44    | 508,420<br>539,250 | 96.3<br>102.1  | 20<br>21       | 13<br>12  | 100<br>96        | 337,410<br>456,370          | 485,090<br>526,180  | 3<br>1                 | 12<br>12              | 54,060<br>63,500      | 13<br>13       | 175<br>155 | 12.9<br>13   | 38.4<br>45.1 | 201.4<br>0.0           | 32.8<br>0.0                          | 60.3<br>60.3                      | 90.9                         |
| 472        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,36,37,36A,36B,36C,36D,36E,42,44   | 547,120            | 102.1          | 23             | 12        | 99               | 464,240                     | 526,620             | 1                      | 12                    | 59,570                | 13             | 156        | 10.4         | 45.1         | 0.0                    | 0.0                                  | 60.3                              | 105.2                        |
| 474        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44   | 534,350            | 101.2          | 24             | 12        | 97               | 451,470                     | 523,630             | 1                      | 12                    | 53,860                | 13             | 157        | 10.4         | 40.4         | 71.6                   | 3.4                                  | 60.3                              | 101.1                        |
| 475        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 537,310            | 101.8          | 24             | 12        | 99               | 454,430                     | 526,580             | 1                      | 12                    | 54,020                | 15             | 152        | 11.2         | 40.9         | 141.0                  | 11.6                                 | 60.3                              | 109.4                        |
| 476        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 533,030            | 101            | 22             | 12        | 102              | 450,150                     | 499,620             | 1                      | 12                    | 56,110                | 15             | 150        | 13.1         | 41.7         | 146.5                  | 21.6                                 | 60.3                              | 116.7                        |
| 477        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 524,510            | 99.3           | 23             | 13        | 97               | 426,880                     | 501,180             | 1                      | 14                    | 54,060                | 15             | 151        | 9.9          | 36.4         | 201.4                  | 32.8                                 | 60.3                              | 115.1                        |
| 478        | 1,3,5,6,9,12,13,17,20,23,26,27,30,32,35,43,44   | 520,130            | 98.5           | 21             | 13        | 98               | 451,970                     | 509,060             | 1                      | 11                    | 20,220                | 14             | 152        | 8.3          | 35.5         | 88.3                   | 25.0                                 | 60.3                              | 103.5                        |
| 479<br>480 | 1,3,5,6,9,12,13,17,20,23,26,28,33,43,44<br>1,3,5,6,9,12,13,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44                              | 527,040<br>554,590 | 99.8<br>105    | 20<br>21       | 13<br>10  | 100<br>99        | 417,010<br>478,970          | 515,970<br>533,540  | 1                      | 11<br>10              | 20,220<br>69,380      | 14<br>11       | 170<br>166 | 12.7<br>13.4 | 41<br>49.4   | 88.3<br>0.0            | 25.0<br>0.0                          | 60.3<br>60.3                      | 114.7<br>210.8               |
| 481        | 1,3,5,6,9,12,13,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44  | 562,460            | 106.5          | 23             | 10        | 102              | 486,840                     | 533,990             | 1                      | 10                    | 65,450                | 11             | 167        | 10.8         | 49.9         | 0.0                    | 0.0                                  | 60.3                              | 210.8                        |
| 482        | 1,3,5,6,9,12,13,17,20,24,27,29,37,38A,45,46,38E,42,44   | 549,690            | 104.1          | 24             | 10        | 100              | 474,070                     | 530,990             | 1                      | 10                    | 59,730                | 11             | 168        | 10.7         | 44.6         | 71.6                   | 3.4                                  | 60.3                              | 206.7                        |
| 483        | 1,3,5,6,9,12,13,17,20,24,27,29,37,38A,45,47,41B,42,44   | 552,650            | 104.7          | 24             | 10        | 102              | 477,030                     | 533,950             | 1                      | 10                    | 59,890                | 13             | 163        | 11.6         | 45.2         | 141.0                  | 11.6                                 | 60.3                              | 215.0                        |
| 484        | 1,3,5,6,9,12,13,17,20,24,27,29,37,39,41A,41B,42,44  | 548,370            | 103.9          | 22             | 10        | 105              | 472,760                     | 506,980             | 1                      | 10                    | 61,990                | 13             | 161        | 13.4         | 45.9         | 146.5                  | 21.6                                 | 60.3                              | 222.3                        |
| 485        | 1,3,5,6,9,12,13,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 520,390            | 98.6           | 17             | 12        | 99               | 365,760                     | 507,320             | 3                      | 10                    | 63,500                | 11             | 179        | 16           | 46.9         | 0.0                    | 0.0                                  | 60.3                              | 79.7                         |
| 486<br>487 | 1,3,5,6,9,12,13,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44<br>1,3,5,6,9,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44     | 528,260<br>515,490 | 97.6           | 19<br>20       | 12<br>12  | 102<br>100       | 373,630<br>360,860          | 507,760<br>504,770  | 3                      | 10<br>10              | 59,570<br>53,860      | 11<br>11       | 180<br>181 | 13.4<br>13.4 | 47.4<br>42.1 | 0.0<br>71.6            | 0.0<br>3.4                           | 60.3<br>60.3                      | 79.7<br>75.6                 |
| 488        | 1,3,5,6,9,12,13,17,20,24,27,30,31,30,37,38A,45,47,41B,42,44   | 518,450            | 98.2           | 20             | 12        | 100              | 363,820                     | 507,720             | 3                      | 10                    | 54,020                | 13             | 176        | 14.2         | 42.1         | 141.0                  | 11.6                                 | 60.3                              | 83.9                         |
| 489        | 1,3,5,6,9,12,13,17,20,24,27,30,31,36,37,39,41A,41B,42,44  | 514,170            | 97.4           | 18             | 12        | 105              | 359,550                     | 480,760             | 3                      | 10                    | 56,110                | 13             | 174        | 16.1         | 43.4         | 146.5                  | 21.6                                 | 60.3                              | 91.2                         |
| 490        | 1,3,5,6,9,12,13,17,20,24,27,30,31,40,41A,41B,42,44  | 505,650            | 95.8           | 17             | 13        | 100              | 336,280                     | 482,320             | 3                      | 12                    | 54,060                | 13             | 175        | 12.9         | 38.1         | 201.4                  | 32.8                                 | 60.3                              | 89.6                         |
| 491        | 1,3,5,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 536,470            | 101.6          | 18             | 12        | 96               | 455,230                     | 523,400             | 1                      | 12                    | 63,500                | 13             | 155        | 13           | 44.8         | 0.0                    | 0.0                                  | 60.3                              | 103.9                        |
| 492        | 1,3,5,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 544,340            | 103.1          | 20             | 12        | 99               | 463,110                     | 523,850             | 1                      | 12                    | 59,570                | 13             | 156        | 10.4         | 45.4         | 0.0                    | 0.0                                  | 60.3                              | 103.9                        |
| 493<br>494 | 1,3,5,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,5,6,9,12,13,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44    | 531,570<br>534,530 | 100.7<br>101.2 | 21<br>21       | 12<br>12  | 97<br>99         | 450,340<br>453,300          | 520,850<br>523,810  | 1                      | 12<br>12              | 53,860<br>54,020      | 13<br>15       | 157<br>152 | 10.4<br>11.2 | 40.1<br>40.6 | 71.6<br>141.0          | 3.4<br>11.6                          | 60.3<br>60.3                      | 99.8<br>108.1                |
| 494        | 1,3,5,6,9,12,13,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44   | 534,530            | 101.2          | 19             | 12        | 102              | 449,020                     | 496,850             | 1                      | 12                    | 56,110                | 15             | 150        | 13.1         | 41.4         | 141.0                  | 21.6                                 | 60.3                              | 115.4                        |
| 496        | 1,3,5,6,9,12,13,17,20,24,27,30,32,34,40,41A,41B,42,44   | 521,740            | 98.8           | 20             | 13        | 97               | 425,750                     | 498,400             | 1                      | 14                    | 54,060                | 15             | 151        | 9.9          | 36.1         | 201.4                  | 32.8                                 | 60.3                              | 113.8                        |
| 497        | 1,3,5,6,9,12,13,17,20,24,27,30,32,35,43,44  | 517,360            | 98             | 18             | 13        | 98               | 450,840                     | 506,280             | 1                      | 11                    | 20,220                | 14             | 152        | 8.3          | 35.2         | 88.3                   | 25.0                                 | 60.3                              | 102.2                        |
| 498        | 1,3,5,6,9,12,13,17,20,24,28,33,43,44  | 524,270            | 99.3           | 19             | 13        | 100              | 415,880                     | 513,190             | 1                      | 11                    | 20,220                | 14             | 170        | 12.7         | 40.7         | 88.3                   | 25.0                                 | 60.3                              | 113.5                        |
| 499        | 1,3,5,6,9,12,14,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 571,700            | 108.3          | 24             | 10        | 100              | 524,740                     | 550,070             | 1                      | 10                    | 69,380                | 11             | 169        | 14.7         | 50.1         | 0.0                    | 0.0                                  | 60.3                              | 215.1                        |
| 500        | 1,3,5,6,9,12,14,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 579,570            | 109.8          | 26<br>27       | 10        | 103              | 532,610                     | 550,510<br>547,520  | 1                      | 10                    | 65,450                | 11             | 170        | 12.1         | 50.6         | 0.0                    | 0.0<br>3.4                           | 60.3<br>60.3                      | 215.1                        |
| 501<br>502 | 1,3,5,6,9,12,14,16,21,23,26,27,29,37,38A,45,46,38E,42,44<br>1,3,5,6,9,12,14,16,21,23,26,27,29,37,38A,45,47,41B,42,44                | 566,800<br>569,760 | 107.3<br>107.9 | 27             | 10<br>10  | 101<br>103       | 519,840<br>522,800          | 547,520<br>550,470  | 1                      | 10<br>10              | 59,730<br>59,890      | 11<br>13       | 171<br>166 | 12.1<br>12.9 | 45.4<br>45.9 | 71.6<br>141.0          | 3.4<br>11.6                          | 60.3                              | 211.0                        |
| 503        | 1,3,5,6,9,12,14,16,21,23,26,27,29,37,39,41A,41B,42,44   | 565,490            | 107.1          | 25             | 10        | 106              | 518,530                     | 523,510             | 1                      | 10                    | 61,990                | 13             | 164        | 14.8         | 46.6         | 146.5                  | 21.6                                 | 60.3                              | 226.6                        |
| 504        | 1,3,5,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 537,500            | 101.8          | 20             | 12        | 100              | 411,530                     | 523,850             | 3                      | 10                    | 63,500                | 11             | 182        | 17.4         | 47.6         | 0.0                    | 0.0                                  | 60.3                              | 83.9                         |

| Table  |       |   | 1 1     | <u> </u> |          |           |       | 1                                     |             |         | <u> </u>  | 1                                     | 1     |     |       | 1  | 1        | I               |      |       |
|--|-------|---|---------|----------|----------|-----------|-------|---------------------------------------|-------------|---------|-----------|---------------------------------------|-------|-----|-------|--|----------|-----------------|------|-------|
| Page  |       |   |         |          |          |           | Other |                                       | Length Not  | Oil/Gas | Number of |                                       |       |     |       |  |          | Woodland within |      |       |
|  |       |   |         |          |          |           |       |                                       | _           | I       |           | _                                     |       |     |       |  |          |                 |      |       |
|  | Route | Segments  | _       |          |          |           |       |                                       |             |         | l         |                                       |       |     |       |  |          |                 |      |       |
| 1936    |       |   |         | _ ` -    | · · ·    | + · · · · | • •   |                                       |             |         |           |                                       | · · · |     | · · · | <del>+ · · · · · · · · · · · · · · · · · · ·</del> | <u> </u> |                 |      |       |
| BEAN   ADMINISTRATION   | 506   |   | 532,600 | 100.9    | 23       | 12        | 101   |                                       | 521,290     | 3       | 10        | 53,860                                | 11    | 184 | 14.8  | 42.9   | 71.6     | 3.4             | 60.3 | 79.8  |
| Transformer  | 507   | 1,3,5,6,9,12,14,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44      | 535,560 |          | 23       | 12        | 103   | 409,590                               | 524,250     | 3       | 10        | 54,020                                | 13    | 179 | 15.6  | 43.4   | 141.0    | 11.6            | 60.3 | 88.2  |
|  |       |   | - 1     |          |          | + +       |       | -                                     |             | _       |           |                                       |       |     |       |  |          |                 |      |       |
| STATE  |       |   |         |          |          |           |       | ·                                     | · ·         |         |           |                                       |       |     |       |  |          |                 |      |       |
| 13.55.02.14.03.15.05.07.05.04.04.05.04.04.05.04.05.05.04.05.05.05.05.05.05.05.05.05.05.05.05.05.   |       |   | 1       |          |          | 1         |       |                                       | -           |         |           |                                       |       |     | +     |  |          |                 |      |       |
| \$1.50   \$1.5 |       |   | -       |          |          |           |       | ·                                     | · ·         |         |           |                                       |       |     |       |  |          |                 |      |       |
| 1.55   |       |   | -       |          |          |           |       | ·                                     | · ·         |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 13.00   13.0   | 514   | 1,3,5,6,9,12,14,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44      | 547,370 | 103.7    | 22       | 12        | 103   | 494,790                               | 513,370     | 1       | 12        | 56,110                                | 15    | 153 | 14.4  | 42.1   | 146.5    | 21.6            | 60.3 | 119.6 |
| 13.55.01.13.6.07.13.   |       |   |         |          |          |           |       |                                       |             |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 14   |       |   | +       |          |          | + +       |       | · · · · · · · · · · · · · · · · · · · | · ·         | _       |           |                                       |       |     | +     | +  |          |                 |      |       |
| 1.55.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1   |       |   |         |          |          |           |       |                                       |             | _       |           |                                       |       |     |       |  |          |                 |      |       |
| 1.5.5.6.12.14.6.12.4.7.7.2.3.18.6.7.4.6.7.4.6.14.15.15.16.15.15.16.15.   |       |   |         |          |          |           |       | ·                                     |             | _       |           | ·                                     |       |     |       |  |          |                 |      |       |
| 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.   |       | 7-1-1-1-1   |         |          |          |           |       | -                                     |             |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 1.00    | 521   | 1,3,5,6,9,12,14,16,21,24,27,29,37,38A,45,47,41B,42,44               | 566,990 | 107.4    | 26       | 10        | 103   | 521,670                               | 547,700     | 1       | 10        | 59,890                                | 13    | 166 | 12.9  | 45.6   | 141.0    | 11.6            | 60.3 | 218.0 |
| 1.15_0.0.114.16_0.16_0.27_0.16_0.16_0.16_0.16_0.16_0.16_0.16_0.16  | 522   | 1,3,5,6,9,12,14,16,21,24,27,29,37,39,41A,41B,42,44                  | 562,710 | 106.6    | 24       | 10        | 106   | 517,400                               | 520,740     | 1       | 10        | 61,990                                | 13    | 164 | 14.8  | 46.3   | 146.5    | 21.6            | 60.3 | 225.3 |
| 1.5.6.6.011.16.16.2.17.33.18.17.33.18.47.33.18   |       |   | -       |          |          |           |       |                                       |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| \$26   |       |   | - 1     |          |          | 1         |       | -                                     |             | _       |           |                                       |       |     | +     |  |          |                 |      |       |
| 1.15.6.6.17.14.16.17.27.27.36.16.04.15.27.27.36.16.04.15.27.27.36.16.07.15.27.27.36.16.07.27.27.27.36.16.07.27.27.27.27.36.16.07.27.27.27.27.27.27.27.27.27.27.27.27.27  |       |   |         |          |          |           |       | ·                                     | · ·         | _       |           |                                       |       |     |       | +  |          |                 |      |       |
| \$1,155.03.114.03.17.03.77.03.75.05.05.05.05.05.05.05.05.05.05.05.05.05  |       |   |         |          |          | 1         |       | -                                     | -           | ŭ       |           |                                       |       |     |       | +  |          |                 |      |       |
| Section   Sect   |       |   | - '     |          |          | + +       |       | ·                                     |             |         |           |                                       |       |     | +     |  |          |                 |      |       |
| State  |       |   |         |          |          |           |       |                                       | -           | 1       |           |                                       |       |     |       | +  |          |                 |      |       |
| 13.56.912.14.16.17.14.27.30.23.14.86.73.14.67.24.45.24.45.24.45.34.46.34.44.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.46.35.47.47.46.35.47.47.46.35.47.47.47.47.47.47.47.47.47.47.47.47.47.   | 530   | 1,3,5,6,9,12,14,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 | 558,680 | 105.8    | 22       | 12        | 100   | 507,740                               | 537,600     | 1       | 12        | 59,570                                | 13    | 159 | 11.7  | 45.8   | 0.0      | 0.0             | 60.3 | 106.8 |
| 1.55   1.55   1.52  |       |   | - 1     |          |          |           |       | -                                     |             |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 1.15,6,6,921,416,71,247,730,23,446,414,414,424   513,007   101.5   22   13   98   470,399   51,160   1   14   54,000   15   15   154   11.2   16.5   701.4   27.8   60.3   116.8   11.5   11.   |       |   | +       |          | <b>+</b> | + +       |       | ·                                     | · ·         | _       |           |                                       |       |     | +     | +  |          |                 |      |       |
| Section   Sect   |       |   | - 1     |          |          | 1         |       | ,                                     |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| 1.55.6.0.1.1.4.1.2.1.2.4.2.8.3.4.4.4   |       |   | +       |          |          |           |       | ·                                     | · ·         |         |           |                                       |       |     |       |  |          |                 |      |       |
| 1.58   |       |   |         |          | <u> </u> |           |       | ,                                     |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| 1.15.5.7.10.12.13.7.18.19.75.8.6.77.93.73.84.84.84.83.80.38.87.42.44   575.000   10.99   25   10   10.0   497.10   533.81.0   0   10   65.850   11   175   12.2   53.3   0.0   0.0   28.6   26.1   13.5.7.10.12.13.71.81.97.5.86.27.29.37.38.44.84.84.84.94.44   530.81.0   0   10   59.73.0   11   175   12.2   53.3   0.0   0.0   28.6   26.1  | 537   | 1,3,5,6,9,12,14,16,22,33,43,44                                      | 514,640 | 97.5     | 19       | 13        | 103   | 479,820                               | 502,980     | 3       | 11        | 20,220                                | 12    | 159 | 13.2  | 39.9   | 88.3     | 25.0            | 60.3 | 105.4 |
| 540   1.1,5.7,101,21,137,18,19.75,867,739,37,38A,45,46,184,244   562,230   106.5   76   10   102   448,440   530,810   0   10   59,730   11   176   12.2   48   71.6   3.4   78.6   78.20   542   1.5,5.7,101,21,317,18,19.75,26,727,37,38A,45,47,418,244   560,220   106.2   24   10   107   483,130   506,510   0   10   61,990   13   109   14.9   49.3   146.5   21.6   28.6   257.6   25.5   |       | 1,3,5,7,10,12,13,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44  | 567,130 | 107.4    | 23       | 10        | 101   | 489,340                               | 533,360     | 0       | 10        | 69,380                                | 11    | 174 | 14.8  | 52.7   | 0.0      | 0.0             | 28.6 | 246.1 |
| 541         13.55.7.01.02.13.17.18.19.25.66.77.29.37.38.44.54.44         565.10         107         26         10         104         487.400         53.87.70.12.13.17.18.19.25.66.77.29.37.38.44.18.42.44         569.20         10.52         24         10         10         69.880         13         171         13         485.5         14.10         11.6         28.6         257.6           543         1.3.5.7.10.21.31.78.19.95.56.27.30.31.36.37.88.48.88.03.88.24.44         53.99.90         100         19         19         13.85.70.10.21.31.78.19.25.56.27.30.31.36.37.38.48.54.68.03.88.03.84.24.44         53.99.90         100         22         12         10         37.10.20.21.37.78.19.25.56.27.30.31.36.37.38.48.54.68.86.24.44         528.030         100         22         12         10         37.10.20.21.37.78.19.25.56.27.30.31.36.37.38.44.46.38.62.24.44         528.030         100         22         12         10         37.10.20.21.37.18.19.25.56.27.30.31.36.37.38.44.46.38.62.24.44         528.030         100         22         12         10         37.10.20.21.37.18.19.25.62.77.30.31.36.37.38.44.46.38.62.24.44         526.02.09         98         20         12         10         37.10.20.21.37.18.19.25.62.77.30.37.34.34.34.37.33.34.44.40.24.44         526.02.09         98         20         12         107         366.50.50.50.50.50.50.50.50.50.50.50.30.34.36.37.33.34.34.34.35.38.38.88.38.38.38  |       |   | -       |          | +        | + +       |       | ·                                     | · ·         |         |           | · · · · · · · · · · · · · · · · · · · |       |     |       | +  | -        |                 |      |       |
| 542   1,3,5,7,10,12,13,17,18,19,25,627,39,13,46,14,14,27,44   560,900   10   07   483,130   506,810   0   10   61,990   13   169   149   49.3   49.0   10.0   0.0   26.6   15.0   54.4   13.5,7,10,12,13,17,18,19,25,627,39,13,86,73,86,88,38,38,42,44   542,800   10.0   2.1   10   376,130   597,580   2   10   59,770   11   188   149   50.8   0.0   0.0   26.6   15.0   13.5,7,10,12,13,17,18,19,25,627,39,31,86,73,88,48,44,44   508,900   10.0   2.2   10   2.3   2.0   |       |   |         |          |          |           |       | ,                                     | -           | ŭ       |           |                                       |       |     | +     |  |          |                 |      |       |
| 943         1.3.5.7.10.12.13.7.18.19.25.6.67.20.31.86.97.38A.388.388.388.03.88.42.44         552.90         109         19         12         101         376.120         507.140         2         10         63.500         11         187         17.5         50.3         0.0         0.0         28.6         115.0           544         1.3.5.7.1012.13.7.18.19.25.6.27.30.31.36.37.38A.45.42.44         558.000         100         22         12         104         384.000         507.580         2         10         595.00         11         188         14.9         50.8         0.0         0.0         2.6         115.0           545         1.3.5.7.1012.13.77.18.19.25.66.77.30.31.36.37.38A.45.47.418.42.44         558.000         100         22         12         102         374.20         507.590         2         10         54.000         13         188         14.8         45.5         716         3.4         28.6         110.9         374.14.118.118.118.118.118.118.118.118.118  | -     |   | + ' -   |          |          |           |       | · · · · · · · · · · · · · · · · · · · | · · · · · · |         | -         |                                       |       |     |       |  | -        |                 |      |       |
| Section   Sect   |       |   |         |          |          |           |       |                                       | -           |         |           |                                       |       |     |       |  |          |                 |      |       |
| 546   1.3.5.7.10.12.13.17.18.19.25.62.73.03.13.63.73.8A.45.47.418.42.44   530.990   100.6   22   12   104   374.190   507.540   2   10   54.070   13   184   15.7   46   141.0   11.6   28.6   119.2   13.5.7.10.12.13.17.18.19.25.26.27.30.31.36.37.39.41.418.42.44   518.190   98.1   19   13   102   346.640   482.140   2   12   54.060   13   183   14.3   41.5   201.4   32.8   28.6   124.9   12.5.7.10.12.13.17.18.19.25.26.73.03.23.43.63.37.38.88.86.38.58.03.86.42.44   548.00   10.4   20   12   98   465.600   573.23.00   12   63.500   13   163   14.4   48.2   0.0   0.0   28.6   139.2   13.5.7.10.12.13.17.18.19.25.26.73.03.23.43.63.37.38.86.86.38.03.86.42.44   548.00   10.5   22   12   101   473.470   523.670   0   12   53.800   13   163   14.4   48.2   0.0   0.0   28.6   139.2   13.5.7.10.12.13.17.18.19.19.25.00.73.03.23.43.63.37.38.45.46.38.64.244   548.00   10.5   22   22   101   473.470   523.670   0   12   53.800   13   163   14.4   48.2   0.0   0.0   28.6   139.2   13.5.7.10.12.13.17.18.19.19.5.26.27.30.32.34.36.37.38.45.47.418.42.44   547.00   10.3   12   29   460.700   520.670   0   12   53.800   13   165   11.8   48.5   71.6   3.4   28.6   135.1   13.5.7.10.12.13.17.18.19.19.5.26.27.30.32.34.36.37.38.45.47.418.42.44   547.00   10.5   23   12   101   463.600   523.600   0   12   53.800   15   10.5   11.8   43.5   71.6   3.4   28.6   135.1   13.5.7.10.12.13.17.18.19.19.5.26.27.30.32.34.36.37.39.41A.418.42.44   547.00   10.8   23   12   101   463.600   523.600   12   54.000   15   150   11.6   44   41.10   11.6   28.6   143.4   143.   |       |   |         |          |          |           |       | ·                                     |             | 2       |           |                                       |       |     |       |  |          |                 |      |       |
| 547         1.3.57,10,12,13,17,18,19,25,62,73,03,23,46,37,38,41,44,42,44         \$26,720         99.8         20         1.2         107         369,920         480,580         2         10         \$51,00         13         182         17.6         46.8         14.65         21.6         28.6         12.5           548         1.3.57,10,12,13,17,18,19,25,26,27,30,32,34,36,37,384,388,48         349,010         10         20         12         94.06         482,140         2         12         \$54,060         13         183         14.3         41.5         201.4         32.8         28.6         124.9           550         1.3,57,10,12,13,17,18,192,52,62,73,03,23,43,63,7384,384,744         \$49,010         10         20         12         98         465,600         523,230         0         12         63,500         13         163         14.4         48.2         0.0         0.0         28.6         139.2           551         1.3,57,10,12,13,17,18,192,52,62,73,03,23,46,37,384,34,7418,42,4         540,00         10.3         12         99         460,700         500,600         12         53,860         13         163         14.4         48.2         0.0         0.0         28.6         139.2           551         1.3,57,10,12,13,17,  | 545   | 1,3,5,7,10,12,13,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44  | 528,030 | 100      | 22       | 12        | 102   | 371,230                               | 504,590     | 2       | 10        | 53,860                                | 11    | 189 | 14.8  | 45.5   | 71.6     | 3.4             | 28.6 | 110.9 |
| 548         1.3.5,7;10.12;13.17;18;19;25;627;30;32,40,41A,418,42,44         518,190         98.1         19         13         102         346,640         482,140         2         12         54960         13         183         14.3         41.5         201.4         32.8         28.6         124.9           549         1.3.5,7;10;12;13;17;18;19;25;62,73,30;23,43,63,738A,388,862,300,38E,42,44         556,080         105         2         12         101         473,470         523,230         0         12         63,500         13         163         14.4         48.2         0.0         0.0         28.6         139.2           551         1.3.5,7;10;12;13;17;18;19;25;627;30;23;43,63,738A,545,463,8E,42,44         544,102         103.1         23         12         101         473,470         523,670         0         12         55,3860         13         165         13         165         11.8         48.7         7.16         3.4         28.6         139.2           552         1.3.5,7;10;12;13;17;18;19;25;627;30;23;43,63;738A,454,4812,44         544,700         103.6         23         12         101         463,600         0         12         55,860         13         165         11.8         43.5         71.6         3.4         28.6 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td>   |       |   | -       |          |          |           |       | ·                                     |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| 549         1,3,5,7,10,12,13,17,18,19,25,62,73,03,23,45,637,38A,38B,38C,380,38E,42,44         549,010         104         20         12         98         465,600         523,230         0         12         63,500         13         163         14.4         48.2         0.0         0.0         28.6         139.2           550         1,3,5,7,10,12,13,71,81,92,5,62,73,03,23,45,67,38A,546,838,642,44         544,120         103.1         23         12         19         473,470         523,670         0         12         59,570         13         164         11.8         44.7         0.0         0         2.86         139.2           551         1,3,5,7,10,12,13,17,181,192,5,62,73,032,34,637,38A,454,441         544,120         103.1         23         12         99         460,700         500,670         0         12         53,860         13         165         11.8         48.7         0.0         0         0         2.86         139.2           552         1,3,5,7,10,12,13,17,181,192,5,62,73,032,34,637,38A,454,4184,244         544,120         103.6         23         12         101         463,660         523,630         0         12         54,020         15         160         12.6         44         141.0         11.6         24.2  |       |   |         |          |          | + +       |       | ,                                     |             |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 550         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,380,38E,42,44         556,890         105.5         22         12         101         473,470         523,670         0         12         59,570         13         164         11.8         48.7         0.0         0.0         28.6         139.2           551         1,3,57,10,12,13,17,18,19,25,62,73,03,23,43,65,738,445,714,82,44         544,10         103.1         23         12         99         460,700         520,670         0         12         53,860         13         165         11.8         48.7         71.6         3.4         28.6         135.1           552         1,3,57,10,12,13,17,18,19,25,62,73,03,23,43,63,738,445,714,18,24         547,070         103.6         23         12         101         463,660         536,60         0         12         54,000         15         160         12.6         44         141.0         11.6         28.6         135.1           553         1,3,57,10,12,13,17,18,19,25,62,73,03,23,44,44         542,800         102.8         21         12         104         489,390         496,670         0         12         56,110         15         158         14.5         44.7         146.5         21.6         28.6         159.7   |       |   | +       |          |          |           |       | ·                                     |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| 551         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44         544,120         103.1         23         12         99         460,700         520,670         0         12         53,860         13         165         11.8         43.5         71.6         3.4         28.6         135.1           552         1,3,5,7,10,12,13,77,18,19,25,26,77,30,32,34,36,37,38A,44,74,18,42,44         542,000         10         12         54,020         15         160         12.6         44         141.0         11.6         28.6         143.4           553         1,3,5,7,10,12,13,77,18,19,25,62,73,03,23,44,46,44         542,800         102.8         21         12         104         489,390         496,670         0         12         56,110         15         160         12.6         44         141.0         11.6         28.6         150.7           554         1,3,5,7,10,12,13,17,18,19,25,62,73,03,23,44,04         534,280         101.2         22         13         99         436,120         498,220         0         14         54,060         15         159         11.3         39.4         201.4         32.8         28.6         149.1           555         1,3,5,7,10,12,13,77,02,32,62,72,93,73,84,34         536,801         101.7   | -     |   |         |          | +        | + +       |       | · · · · · · · · · · · · · · · · · · · |             | _       |           | · · · · · · · · · · · · · · · · · · · |       |     |       |  |          |                 |      |       |
| 552         1,3,5,7,10,12,13,17,18,19,25,62,7,30,32,34,36,37,384,45,47,418,42,44         547,070         103.6         23         12         101         463,660         523,630         0         12         54,020         15         160         12.6         44         141.0         11.6         28.6         143.4           553         1,3,5,7,10,12,13,77,18,19,25,26,73,03,23,40,418,42,44         542,800         102.8         21         12         104         459,390         496,670         0         12         56,10         15         18         14.5         44.7         146.5         21.6         28.6         150.7           554         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,34,041,418,42,44         542,800         10.2         21         19         498,220         0         14         54,060         15         159         11.3         39.4         201.4         32.8         28.6         149.1           555         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,35,43,44         550,00         10.4         20         13         100         461,210         506,110         0         11         20,220         14         160         9.7         38.6         88.3         25.0         28.6         137.5         135,710,12,13,17,20,23,26,77,33,33,43,84   |       |   |         |          |          |           |       |                                       |             |         |           |                                       |       |     |       |  |          |                 |      |       |
| 554         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44         534,280         101.2         22         13         99         436,120         498,220         0         14         54,060         15         159         11.3         39.4         201.4         32.8         28.6         149.1           555         1,3,5,7,10,12,13,17,18,19,25,26,23,33,43,44         536,810         101.7         19         13         100         461,210         506,110         0         11         20,220         14         160         9.7         38.6         88.3         25.0         28.6         137.5           557         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,38B,38S,38D,38E,42,44         550,150         104.2         24         10         101         472,900         534,850         0         10         69,380         11         159         15         51.3         0.0         0.0         28.6         212.1           558         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,48,38B,38B,48,28B,38B,48,44         558,030         105.7         26         10         104         480,770         535,290         0         10         69,380         11         160         12.4         51.9         10.0         20         22.1         20         2   |       |   | 1       |          | 23       | + +       |       | -                                     | -           | 0_      |           | · · · · · · · · · · · · · · · · · · · | 15    |     |       | +  |          |                 |      |       |
| 555         1,3,5,7,10,12,13,17,18,19,25,26,27,30,32,35,43,44         529,900         10.4         20         13         100         461,210         506,110         0         11         20,220         14         160         9.7         38.6         88.3         25.0         28.6         137.5           556         1,3,5,7,10,12,13,17,18,19,25,26,28,33,43,44         536,810         101.7         19         13         102         426,250         513,010         0         11         20,220         14         178         14.1         44.1         88.3         25.0         28.6         148.7           557         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,38B,38B,38B,38B,38B,42,44         558,010         10.7         26         10         104         480,770         535,290         0         10         69,380         11         160         12.4         51.9         0.0         0.0         28.6         212.1           559         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,418,42,44         545,260         103.3         27         10         102         468,000         532,290         0         10         59,730         11         161         12.4         46.6         71.6         3.4         28.6         208.0           <  |       |   |         |          |          | + +       |       | · · · · · · · · · · · · · · · · · · · |             |         |           |                                       |       |     |       | +  |          |                 |      |       |
| 556         1,3,5,7,10,12,13,17,18,19,25,26,28,33,43,44         536,810         101.7         19         13         102         426,250         513,010         0         11         20,220         14         178         14.1         44.1         88.3         25.0         28.6         148.7           557         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,38B,38,38C,38D,38E,42,44         550,150         104.2         24         10         101         472,900         534,850         0         10         69,380         11         159         15         51.3         0.0         0.0         28.6         212.1           558         1,3,5,7,10,12,13,17,20,23,66,27,29,37,38A,45,46,38E,42,44         558,000         10.5         26         10         104         480,770         535,290         0         10         65,450         11         160         12.4         51.9         0.0         0.0         28.6         212.1           559         1,3,5,7,10,12,13,17,20,23,66,27,29,37,38A,45,47,4184,42         548,210         103.8         27         10         102         468,000         532,250         0         10         59,730         11         161         12.4         46.6         71.6         3.4         71.6         13.6         21.1   |       |   | +       |          | <b>+</b> | + +       |       | ·                                     |             | _       |           | · · · · · · · · · · · · · · · · · · · |       |     |       | +  |          |                 |      |       |
| 557         1,3,5,7,10,12,13,17,20,23,62,72,937,38A,38B,38C,38D,38E,42,44         550,150         104.2         24         10         101         472,900         534,850         0         10         69,380         11         159         15         51.3         0.0         0.0         28.6         212.1           558         1,3,5,7,10,12,13,17,20,23,62,72,937,38A,38B,48,38D,38E,42,44         558,030         105.7         26         10         104         480,700         535,290         0         10         65,450         11         160         12.4         51.9         0.0         0.0         28.6         212.1           559         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,454,54,638E,42,44         545,260         103.3         27         10         102         468,000         532,290         0         10         59,730         11         161         12.4         46.6         71.6         3.4         28.6         208.0           560         1,3,5,7,10,12,13,17,20,23,26,77,937,38A,454,44         543,940         103.8         27         10         104         470,960         535,250         0         10         59,890         13         156         13.2         47.1         11.6         28.6         223.6           561  |       |   | - '     |          | <b>+</b> |           |       |                                       |             | _       |           |                                       |       |     | +     | +  |          |                 |      |       |
| 558         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44         558,030         105.7         26         10         104         480,770         535,290         0         10         65,450         11         160         12.4         51.9         0.0         0.0         28.6         212.1           559         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44         545,260         103.3         27         10         102         468,000         532,290         0         10         59,730         11         161         12.4         46.6         71.6         3.4         28.6         208.0           560         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44         548,210         103.8         27         10         104         470,960         535,250         0         10         59,890         13         156         13.2         47.1         141.0         11.6         28.6         216.3           561         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44         543,940         103         25         10         107         466,680         508,290         0         10         61,990         13         154         15.1         47.8         146.5         21.6         28.6         23.6   |       |   |         |          |          |           |       | ,                                     |             |         |           |                                       |       |     |       | +  | +        |                 |      |       |
| 559         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,46,38E,42,44         545,260         103.3         27         10         102         468,000         532,290         0         10         59,730         11         161         12.4         46.6         71.6         3.4         28.6         208.0           560         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44         548,210         103.8         27         10         104         470,960         535,250         0         10         59,890         13         156         13.2         47.1         141.0         11.6         28.6         216.3           561         1,3,5,7,10,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44         543,940         103         25         10         107         466,680         508,290         0         10         61,990         13         154         15.1         47.8         146.5         21.6         28.6         223.6           562         1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,483,80,38E,42,44         515,950         97.7         20         12         101         359,690         508,620         2         10         63,500         11         172         17.7         48.8         0.0         0.0         28.6         81.0 <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td>· ·</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>  |       |   | +       |          |          |           |       | ·                                     | · ·         | _       |           |                                       |       |     |       | +  |          |                 |      |       |
| 560         1,3,5,7,10,12,13,17,20,23,26,27,29,37,38A,45,47,41B,42,44         548,210         103.8         27         10         104         470,960         535,250         0         10         59,890         13         156         13.2         47.1         141.0         11.6         28.6         216.3           561         1,3,5,7,10,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44         543,940         103         25         10         107         466,680         508,290         0         10         61,990         13         154         15.1         47.8         146.5         21.6         28.6         223.6           562         1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44         515,950         97.7         20         12         101         359,690         508,620         2         10         63,500         11         172         17.7         48.8         0.0         0.0         28.6         81.0           563         1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,48B,48,38D,38E,42,44         523,830         99.2         22         12         104         367,560         509,070         2         10         59,570         11         173         15.1         49.4         0.0         0.0         28.6         81.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>+ +</td> <td></td> <td>,</td> <td>-</td> <td>_</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>  |       |   |         |          |          | + +       |       | ,                                     | -           | _       |           | · · · · · · · · · · · · · · · · · · · |       |     |       | +  |          |                 |      |       |
| 562       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44       515,950       97.7       20       12       101       359,690       508,620       2       10       63,500       11       172       17.7       48.8       0.0       0.0       28.6       81.0         563       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44       523,830       99.2       22       12       104       367,560       509,070       2       10       59,570       11       173       15.1       49.4       0.0       0.0       28.6       81.0         564       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44       511,060       96.8       23       12       102       354,790       506,070       2       10       53,860       11       174       15.1       44.1       71.6       3.4       28.6       76.9         565       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44       514,010       97.4       23       12       104       357,750       509,030       2       10       54,020       13       169       15.9       44.6       141.0       11.6       28.6       85.2         566       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44       509,740  |       |   | -       |          | 27       |           |       | ·                                     | · ·         | 0       | 10        | ·                                     |       | 156 | 13.2  | 47.1   |          | 11.6            | 28.6 | 216.3 |
| 563       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44       523,830       99.2       22       12       104       367,560       59,070       2       10       59,570       11       173       15.1       49.4       0.0       0.0       28.6       81.0         564       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44       511,060       96.8       23       12       102       354,790       506,070       2       10       53,860       11       174       15.1       44.1       71.6       3.4       28.6       76.9         565       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44       514,010       97.4       23       12       104       357,750       509,030       2       10       54,020       13       169       15.9       44.6       141.0       11.6       28.6       85.2         566       1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44       509,740       96.5       21       12       107       353,470       482,070       2       10       56,110       13       167       17.8       45.4       146.5       21.6       28.6       92.5  |       | 1,3,5,7,10,12,13,17,20,23,26,27,29,37,39,41A,41B,42,44              | 543,940 |          |          | 10        |       | ·                                     | · ·         | _       |           | ·                                     |       |     |       | 47.8   |          |                 |      |       |
| 564     1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44     511,060     96.8     23     12     102     354,790     506,070     2     10     53,860     11     174     15.1     44.1     71.6     3.4     28.6     76.9       565     1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44     514,010     97.4     23     12     104     357,750     509,030     2     10     54,020     13     169     15.9     44.6     141.0     11.6     28.6     85.2       566     1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44     509,740     96.5     21     12     107     353,470     482,070     2     10     56,110     13     167     17.8     45.4     146.5     21.6     28.6     92.5  |       |   | +       |          |          | + +       |       | ·                                     |             |         |           | ·                                     |       |     |       | +  | +        |                 |      |       |
| 565     1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44     514,010     97.4     23     12     104     357,750     509,030     2     10     54,020     13     169     15.9     44.6     141.0     11.6     28.6     85.2       566     1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44     509,740     96.5     21     12     107     353,470     482,070     2     10     56,110     13     167     17.8     45.4     146.5     21.6     28.6     92.5   |       |   |         |          |          | + +       |       |                                       |             |         |           | · · · · · · · · · · · · · · · · · · · |       |     | +     |  |          |                 |      |       |
| 566 1,3,5,7,10,12,13,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44 509,740 96.5 21 12 107 353,470 482,070 2 10 56,110 13 167 17.8 45.4 146.5 21.6 28.6 92.5  |       |   | +       |          |          | + +       |       | ·                                     | · ·         |         |           |                                       |       |     |       | +  |          |                 |      |       |
|  |       |   |         |          | +        | + +       |       | · · · · · · · · · · · · · · · · · · · |             |         |           | · · · · · · · · · · · · · · · · · · · |       |     |       | +  |          |                 |      |       |
|  |       |   | +       |          | <b>+</b> | + +       |       | ·                                     |             |         |           |                                       |       |     | +     | +  |          |                 | -    |       |

|            |   |                    |                |                    |                      |                      |                                |                    |                        | 1                     |                       |                           |                      |                   | 1              |                        |                                      |                   |                                 |
|------------|---|--------------------|----------------|--------------------|----------------------|----------------------|--------------------------------|--------------------|------------------------|-----------------------|-----------------------|---------------------------|----------------------|-------------------|----------------|------------------------|--------------------------------------|-------------------|---------------------------------|
|            |   |                    |                |                    |                      | 0.1                  | Length Not                     |                    |                        |                       | Length                |                           |                      |                   |                | Gray Bat               |                                      | Eastern           | Broadhead                       |
|            |   | Total              | Total          | Angles Over 30     | Highway              | Other<br>Roadway     | Along Existing<br>Transmission | Along              | Oil/Gas<br>Wells/Tanks | Number of<br>Pipeline | Through<br>Previously | Transmission              | Stream               | Waterbodies       | Wetlands in    | Critical<br>Habitat in | Woodland within<br>Gray Bat Critical | Critical Habitat  | Skink State<br>Critical Habitat |
| Route      | Segments  | Length<br>(ft)     | Length<br>(mi) | Degrees<br>(count) | Crossings<br>(count) | Crossings<br>(count) | Line<br>(feet)                 | Roads<br>(feet)    | in ROW<br>(count)      | Crossings<br>(count)  | Mined Area<br>(feet)  | Line Crossings<br>(count) | Crossings<br>(count) | in ROW<br>(acres) | ROW<br>(acres) | ROW<br>(acres)         | Habitat in ROW (acres)               | in ROW<br>(acres) | in ROW<br>(acres)               |
| 568        | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 532,040            | 100.8          | 21                 | 12                   | 98                   | 449,160                        | 524,710            | 0                      | 12                    | 63,500                | 13                        | 148                  | 14.6              | 46.8           | 0.0                    | 0.0                                  | 28.6              | 105.2                           |
| 569        | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 539,910            | 102.3          | 23                 | 12                   | 101                  | 457,030                        | 525,150            | 0                      | 12                    | 59,570                | 13                        | 149                  | 12                | 47.3           | 0.0                    | 0.0                                  | 28.6              | 105.2                           |
| 570<br>571 | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44      | 527,140<br>530,100 | 99.8<br>100.4  | 24                 | 12<br>12             | 99<br>101            | 444,260<br>447,220             | 522,160<br>525,110 | 0                      | 12<br>12              | 53,860<br>54,020      | 13<br>15                  | 150<br>145           | 12<br>12.8        | 42.1<br>42.6   | 71.6<br>141.0          | 3.4<br>11.6                          | 28.6<br>28.6      | 101.1<br>109.4                  |
| 572        | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | 525,830            | 99.6           | 22                 | 12                   | 101                  | 447,220                        | 498,150            | 0                      | 12                    | 56,110                | 15                        | 143                  | 14.7              | 43.3           | 141.0                  | 21.6                                 | 28.6              | 116.7                           |
| 573        | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,34,40,41A,41B,42,44   | 517,300            | 98             | 23                 | 13                   | 99                   | 419,670                        | 499,710            | 0                      | 14                    | 54,060                | 15                        | 144                  | 11.5              | 38             | 201.4                  | 32.8                                 | 28.6              | 115.1                           |
| 574        | 1,3,5,7,10,12,13,17,20,23,26,27,30,32,35,43,44  | 512,920            | 97.1           | 21                 | 13                   | 100                  | 444,760                        | 507,590            | 0                      | 11                    | 20,220                | 14                        | 145                  | 9.9               | 37.2           | 88.3                   | 25.0                                 | 28.6              | 103.5                           |
| 575<br>576 | 1,3,5,7,10,12,13,17,20,23,26,28,33,43,44<br>1,3,5,7,10,12,13,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44                                      | 519,830<br>547,380 | 98.5<br>103.7  | 20                 | 13<br>10             | 102<br>101           | 409,800<br>471,760             | 514,500<br>532,070 | 0                      | 11<br>10              | 20,220<br>69,380      | 14<br>11                  | 163<br>159           | 14.3<br>15        | 42.6<br>51     | 88.3<br>0.0            | 25.0<br>0.0                          | 28.6<br>28.6      | 114.7<br>210.8                  |
| 577        | 1,3,5,7,10,12,13,17,20,24,27,29,37,36A,36B,36C,36D,36E,42,44  | 555,250            | 105.7          | 23                 | 10                   | 101                  | 471,760                        | 532,520            | 0                      | 10                    | 65,450                | 11                        | 160                  | 12.4              | 51.5           | 0.0                    | 0.0                                  | 28.6              | 210.8                           |
| 578        | 1,3,5,7,10,12,13,17,20,24,27,29,37,38A,45,46,38E,42,44  | 542,480            | 102.7          | 24                 | 10                   | 102                  | 466,870                        | 529,520            | 0                      | 10                    | 59,730                | 11                        | 161                  | 12.4              | 46.3           | 71.6                   | 3.4                                  | 28.6              | 206.7                           |
| 579        | 1,3,5,7,10,12,13,17,20,24,27,29,37,38A,45,47,41B,42,44  | 545,440            | 103.3          | 24                 | 10                   | 104                  | 469,820                        | 532,480            | 0                      | 10                    | 59,890                | 13                        | 156                  | 13.2              | 46.8           | 141.0                  | 11.6                                 | 28.6              | 215.0                           |
| 580<br>581 | 1,3,5,7,10,12,13,17,20,24,27,29,37,39,41A,41B,42,44<br>1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44                     | 541,170<br>513,180 | 102.5<br>97.2  | 22<br>17           | 10<br>12             | 107<br>101           | 465,550<br>358,550             | 505,510<br>505,850 | 0 2                    | 10<br>10              | 61,990<br>63,500      | 13<br>11                  | 154<br>172           | 15.1<br>17.7      | 47.5<br>48.5   | 146.5<br>0.0           | 21.6<br>0.0                          | 28.6<br>28.6      | 222.3<br>79.7                   |
| 582        | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 521,050            | 98.7           | 19                 | 12                   | 104                  | 366,430                        | 506,290            | 2                      | 10                    | 59,570                | 11                        | 173                  | 15.1              | 49.1           | 0.0                    | 0.0                                  | 28.6              | 79.7                            |
| 583        | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44  | 508,280            | 96.3           | 20                 | 12                   | 102                  | 353,660                        | 503,300            | 2                      | 10                    | 53,860                | 11                        | 174                  | 15.1              | 43.8           | 71.6                   | 3.4                                  | 28.6              | 75.6                            |
| 584        | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44  | 511,240            | 96.8           | 20                 | 12                   | 104                  | 356,610                        | 506,250            | 2                      | 10                    | 54,020                | 13                        | 169                  | 15.9              | 44.3           | 141.0                  | 11.6                                 | 28.6              | 83.9                            |
| 585<br>586 | 1,3,5,7,10,12,13,17,20,24,27,30,31,36,37,39,41A,41B,42,44<br>1,3,5,7,10,12,13,17,20,24,27,30,31,40,41A,41B,42,44                              | 506,970<br>498,440 | 96<br>94.4     | 18<br>17           | 12<br>13             | 107<br>102           | 352,340<br>329,070             | 479,290<br>480,850 | 2                      | 10<br>12              | 56,110<br>54,060      | 13<br>13                  | 167<br>168           | 17.8<br>14.6      | 45.1<br>39.8   | 146.5<br>201.4         | 21.6<br>32.8                         | 28.6<br>28.6      | 91.2<br>89.6                    |
| 587        | 1,3,5,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 529,260            | 100.2          | 18                 | 12                   | 98                   | 448,030                        | 521,930            | 0                      | 12                    | 63,500                | 13                        | 148                  | 14.6              | 46.5           | 0.0                    | 0.0                                  | 28.6              | 103.9                           |
| 588        | 1,3,5,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 537,140            | 101.7          | 20                 | 12                   | 101                  | 455,900                        | 522,380            | 0                      | 12                    | 59,570                | 13                        | 149                  | 12                | 47             | 0.0                    | 0.0                                  | 28.6              | 103.9                           |
| 589        | 1,3,5,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44   | 524,370            | 99.3           | 21                 | 12                   | 99                   | 443,130                        | 519,380            | 0                      | 12                    | 53,860                | 13                        | 150                  | 12                | 41.7           | 71.6                   | 3.4                                  | 28.6              | 99.8                            |
| 590<br>591 | 1,3,5,7,10,12,13,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,10,12,13,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44               | 527,320<br>523,050 | 99.9<br>99.1   | 21<br>19           | 12<br>12             | 101<br>104           | 446,090<br>441,820             | 522,340<br>495,380 | 0                      | 12<br>12              | 54,020<br>56,110      | 15<br>15                  | 145<br>143           | 12.8<br>14.7      | 42.3<br>43     | 141.0<br>146.5         | 11.6<br>21.6                         | 28.6<br>28.6      | 108.1<br>115.4                  |
| 592        | 1,3,5,7,10,12,13,17,20,24,27,30,32,34,40,41A,41B,42,44  | 514,530            | 97.4           | 20                 | 13                   | 99                   | 418,540                        | 496,930            | 0                      | 14                    | 54,060                | 15                        | 144                  | 11.5              | 37.7           | 201.4                  | 32.8                                 | 28.6              | 113.8                           |
| 593        | 1,3,5,7,10,12,13,17,20,24,27,30,32,35,43,44   | 510,150            | 96.6           | 18                 | 13                   | 100                  | 443,630                        | 504,810            | 0                      | 11                    | 20,220                | 14                        | 145                  | 9.9               | 36.9           | 88.3                   | 25.0                                 | 28.6              | 102.2                           |
| 594        | 1,3,5,7,10,12,13,17,20,24,28,33,43,44   | 517,060            | 97.9           | 19                 | 13                   | 102                  | 408,670                        | 511,720            | 0                      | 11                    | 20,220                | 14                        | 163                  | 14.3              | 42.3           | 88.3                   | 25.0                                 | 28.6              | 113.5                           |
| 595<br>596 | 1,3,5,7,10,12,14,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,10,12,14,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44             | 564,490<br>572,370 | 106.9<br>108.4 | 24<br>26           | 10<br>10             | 102<br>105           | 517,530<br>525,410             | 548,600<br>549,040 | 0                      | 10<br>10              | 69,380<br>65.450      | 11<br>11                  | 162<br>163           | 16.4<br>13.8      | 51.8<br>52.3   | 0.0                    | 0.0                                  | 28.6<br>28.6      | 215.1<br>215.1                  |
| 597        | 1,3,5,7,10,12,14,16,21,23,26,27,29,37,38A,45,46,38E,42,44   | 559,600            | 106            | 27                 | 10                   | 103                  | 512,640                        | 546,050            | 0                      | 10                    | 59,730                | 11                        | 164                  | 13.7              | 47             | 71.6                   | 3.4                                  | 28.6              | 211.0                           |
| 598        | 1,3,5,7,10,12,14,16,21,23,26,27,29,37,38A,45,47,41B,42,44   | 562,550            | 106.5          | 27                 | 10                   | 105                  | 515,590                        | 549,000            | 0                      | 10                    | 59,890                | 13                        | 159                  | 14.6              | 47.5           | 141.0                  | 11.6                                 | 28.6              | 219.3                           |
| 599        | 1,3,5,7,10,12,14,16,21,23,26,27,29,37,39,41A,41B,42,44  | 558,280            | 105.7          | 25                 | 10                   | 108                  | 511,320                        | 522,040            | 0                      | 10                    | 61,990                | 13                        | 157                  | 16.5              | 48.3           | 146.5                  | 21.6                                 | 28.6              | 226.6<br>83.9                   |
| 600<br>601 | 1,3,5,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 | 530,290<br>538,160 | 100.4<br>101.9 | 20                 | 12<br>12             | 102<br>105           | 404,320<br>412,200             | 522,380<br>522,820 | 2                      | 10<br>10              | 63,500<br>59,570      | 11<br>11                  | 175<br>176           | 19<br>16.4        | 49.3<br>49.8   | 0.0                    | 0.0                                  | 28.6<br>28.6      | 83.9                            |
| 602        | 1,3,5,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44   | 525,390            | 99.5           | 23                 | 12                   | 103                  | 399,430                        | 519,820            | 2                      | 10                    | 53,860                | 11                        | 177                  | 16.4              | 44.5           | 71.6                   | 3.4                                  | 28.6              | 79.8                            |
| 603        | 1,3,5,7,10,12,14,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44   | 528,350            | 100.1          | 23                 | 12                   | 105                  | 402,380                        | 522,780            | 2                      | 10                    | 54,020                | 13                        | 172                  | 17.2              | 45.1           | 141.0                  | 11.6                                 | 28.6              | 88.2                            |
| 604<br>605 | 1,3,5,7,10,12,14,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44  | 524,080            | 99.3           | 21                 | 12                   | 108                  | 398,110                        | 495,820            | 2                      | 10                    | 56,110                | 13                        | 170                  | 19.1              | 45.8           | 146.5                  | 21.6                                 | 28.6              | 95.4                            |
| 606        | 1,3,5,7,10,12,14,16,21,23,26,27,30,31,40,41A,41B,42,44<br>1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44            | 515,550<br>546,380 | 97.6<br>103.5  | 20                 | 13<br>12             | 103<br>99            | 374,840<br>493,800             | 497,380<br>538,460 | 0                      | 12<br>12              | 54,060<br>63,500      | 13<br>13                  | 171<br>151           | 15.9<br>16        | 40.5<br>47.2   | 201.4<br>0.0           | 32.8<br>0.0                          | 28.6<br>28.6      | 93.9<br>108.1                   |
| 607        | 1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 554,250            | 105            | 23                 | 12                   | 102                  | 501,670                        | 538,910            | 0                      | 12                    | 59,570                | 13                        | 152                  | 13.4              | 47.8           | 0.0                    | 0.0                                  | 28.6              | 108.1                           |
| 608        | 1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44  | 541,480            | 102.6          | 24                 | 12                   | 100                  | 488,900                        | 535,910            | 0                      | 12                    | 53,860                | 13                        | 153                  | 13.4              | 42.5           | 71.6                   | 3.4                                  | 28.6              | 104.0                           |
| 609        | 1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44         | 544,440<br>540,170 | 103.1<br>102.3 | 24                 | 12<br>12             | 102<br>105           | 491,860<br>487,580             | 538,870<br>511,910 | 0                      | 12<br>12              | 54,020<br>56,110      | 15<br>15                  | 148<br>146           | 14.2<br>16.1      | 43<br>43.8     | 141.0<br>146.5         | 11.6<br>21.6                         | 28.6<br>28.6      | 112.4<br>119.6                  |
| 610<br>611 | 1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,30,37,39,41A,41B,42,44<br>1,3,5,7,10,12,14,16,21,23,26,27,30,32,34,40,41A,41B,42,44                  | 540,170            | 102.3          | 23                 | 13                   | 100                  | 464,310                        | 511,910            | 0                      | 14                    | 54,060                | 15                        | 146                  | 12.9              | 38.5           | 201.4                  | 32.8                                 | 28.6              | 119.6                           |
| 612        | 1,3,5,7,10,12,14,16,21,23,26,27,30,32,35,43,44  | 527,260            | 99.9           | 21                 | 13                   | 101                  | 489,400                        | 521,340            | 0                      | 11                    | 20,220                | 14                        | 148                  | 11.3              | 37.6           | 88.3                   | 25.0                                 | 28.6              | 106.5                           |
| 613        | 1,3,5,7,10,12,14,16,21,23,26,28,33,43,44  | 534,170            | 101.2          | 20                 | 13                   | 103                  | 454,440                        | 528,250            | 0                      | 11                    | 20,220                | 14                        | 166                  | 15.7              | 43.1           | 88.3                   | 25.0                                 | 28.6              | 117.7                           |
| 614<br>615 | 1,3,5,7,10,12,14,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,10,12,14,16,21,24,27,29,37,38A,38B,48,38D,38E,42,44                   | 561,720<br>569,590 | 106.4<br>107.9 | 23<br>25           | 10<br>10             | 102<br>105           | 516,400<br>524,270             | 545,820<br>546,270 | 0                      | 10<br>10              | 69,380<br>65,450      | 11<br>11                  | 162<br>163           | 16.4<br>13.8      | 51.5<br>52     | 0.0                    | 0.0                                  | 28.6<br>28.6      | 213.8<br>213.8                  |
| 616        | 1,3,5,7,10,12,14,10,21,24,27,25,37,36B,46,36B,36B,36B,42,44   | 556,820            | 107.5          | 26                 | 10                   | 103                  | 511,500                        | 543,270            | 0                      | 10                    | 59,730                | 11                        | 164                  | 13.7              | 46.7           | 71.6                   | 3.4                                  | 28.6              | 209.7                           |
| 617        | 1,3,5,7,10,12,14,16,21,24,27,29,37,38A,45,47,41B,42,44  | 559,780            | 106            | 26                 | 10                   | 105                  | 514,460                        | 546,230            | 0                      | 10                    | 59,890                | 13                        | 159                  | 14.6              | 47.2           | 141.0                  | 11.6                                 | 28.6              | 218.0                           |
| 618        | 1,3,5,7,10,12,14,16,21,24,27,29,37,39,41A,41B,42,44   | 555,510            | 105.2          | 24                 | 10                   | 108                  | 510,190                        | 519,270            | 0                      | 10                    | 61,990                | 13                        | 157                  | 16.5              | 48             | 146.5                  | 21.6                                 | 28.6              | 225.3                           |
| 619<br>620 | 1,3,5,7,10,12,14,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,10,12,14,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44       | 527,520<br>535,390 | 99.9<br>101.4  | 19<br>21           | 12<br>12             | 102<br>105           | 403,190<br>411,060             | 519,600<br>520,050 | 2                      | 10<br>10              | 63,500<br>59,570      | 11<br>11                  | 175<br>176           | 19<br>16.4        | 49<br>49.5     | 0.0                    | 0.0                                  | 28.6<br>28.6      | 82.6<br>82.6                    |
| 621        | 1,3,5,7,10,12,14,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 535,390            | 99             | 22                 | 12                   | 103                  | 398,290                        | 517,050            | 2                      | 10                    | 53,860                | 11                        | 177                  | 16.4              | 49.5           | 71.6                   | 3.4                                  | 28.6              | 78.6                            |
| 622        | 1,3,5,7,10,12,14,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44  | 525,580            | 99.5           | 22                 | 12                   | 105                  | 401,250                        | 520,010            | 2                      | 10                    | 54,020                | 13                        | 172                  | 17.2              | 44.8           | 141.0                  | 11.6                                 | 28.6              | 86.9                            |
| 623        | 1,3,5,7,10,12,14,16,21,24,27,30,31,36,37,39,41A,41B,42,44   | 521,310            | 98.7           | 20                 | 12                   | 108                  | 396,980                        | 493,040            | 2                      | 10                    | 56,110                | 13                        | 170                  | 19.1              | 45.5           | 146.5                  | 21.6                                 | 28.6              | 94.2                            |
| 624        | 1,3,5,7,10,12,14,16,21,24,27,30,31,40,41A,41B,42,44   | 512,780            | 97.1           | 19                 | 13                   | 103                  | 373,710                        | 494,600            | 2                      | 12                    | 54,060                | 13<br>13                  | 171                  | 15.9<br>16        | 40.2           | 201.4<br>0.0           | 32.8                                 | 28.6<br>28.6      | 92.6<br>106.8                   |
| 625<br>626 | 1,3,5,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 | 543,600<br>551,480 | 103<br>104.4   | 20                 | 12<br>12             | 99<br>102            | 492,660<br>500,540             | 535,690<br>536,130 | 0                      | 12<br>12              | 63,500<br>59,570      | 13                        | 151<br>152           | 13.4              | 46.9<br>47.5   | 0.0                    | 0.0                                  | 28.6              | 106.8                           |
| 627        | 1,3,5,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44   | 538,710            | 102            | 23                 | 12                   | 100                  | 487,770                        | 533,140            | 0                      | 12                    | 53,860                | 13                        | 153                  | 13.4              | 42.2           | 71.6                   | 3.4                                  | 28.6              | 102.8                           |
| 628        | 1,3,5,7,10,12,14,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44   | 541,660            | 102.6          | 23                 | 12                   | 102                  | 490,720                        | 536,090            | 0                      | 12                    | 54,020                | 15                        | 148                  | 14.2              | 42.7           | 141.0                  | 11.6                                 | 28.6              | 111.1                           |
| 629        | 1,3,5,7,10,12,14,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44  | 537,390            | 101.8          | 21                 | 12                   | 105                  | 486,450                        | 509,130            | 0                      | 12                    | 56,110                | 15<br>15                  | 146                  | 16.1              | 43.5           | 146.5                  | 21.6                                 | 28.6              | 118.4                           |
| 630        | 1,3,5,7,10,12,14,16,21,24,27,30,32,34,40,41A,41B,42,44  | 528,870            | 100.2          | 22                 | 13                   | 100                  | 463,180                        | 510,690            | 0                      | 14                    | 54,060                | 15                        | 147                  | 12.9              | 38.2           | 201.4                  | 32.8                                 | 28.6              | 116.8                           |

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|              |   | 1                  |                 |                           |           |                      |                      |                    |                       | 1                     |                          |                                |                | 1                     | 1                  |                   |                                     |                            |                            |
|--------------|---|--------------------|-----------------|---------------------------|-----------|----------------------|----------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------------|----------------|-----------------------|--------------------|-------------------|-------------------------------------|----------------------------|----------------------------|
|              |   |                    |                 |                           |           |                      | Length Not           |                    |                       |                       | Length                   |                                |                |                       |                    | Gray Bat          |                                     | Eastern                    | Broadhead                  |
|              |   | Total              | Total           | Angles Over 30            | ) Highway | Other                | Along Existing       | 1 -                | I                     | Number of             | Through                  | Transmission                   | Stroom         | Waterhadies           | Watlands in        | Critical          | Woodland within                     | -                          | Skink State                |
|              |   | Total<br>Length    | Total<br>Length | Angles Over 30<br>Degrees | Crossings | Roadway<br>Crossings | Transmission<br>Line | Along<br>Roads     | Wells/Tanks<br>in ROW | Pipeline<br>Crossings | Previously<br>Mined Area | Transmission<br>Line Crossings |                | Waterbodies<br>in ROW | Wetlands in<br>ROW | Habitat in<br>ROW | Gray Bat Critical<br>Habitat in ROW | Critical Habitat<br>in ROW | Critical Habitat<br>in ROW |
| Route<br>631 | Segments<br>1,3,5,7,10,12,14,16,21,24,27,30,32,35,43,44   | (ft)<br>524,490    | (mi)<br>99.3    | (count)                   | (count)   | (count)              | (feet)<br>488,270    | (feet)<br>518,570  | (count)               | (count)               | (feet)<br>20,220         | (count)                        | (count)<br>148 | (acres)<br>11.3       | (acres)<br>37.3    | (acres)<br>88.3   | (acres)<br>25.0                     | (acres)<br>28.6            | (acres)<br>105.2           |
| 632          | 1,3,5,7,10,12,14,16,21,24,27,30,32,33,43,44   | 531,400            | 100.6           | 21                        | 13        | 101                  | 453,310              | 525,480            | 0                     | 11                    | 20,220                   | 14                             | 166            | 15.7                  | 42.8               | 88.3              | 25.0                                | 28.6                       | 116.4                      |
| 633          | 1,3,5,7,10,12,14,16,22,33,43,44   | 507,430            | 96.1            | 19                        | 13        | 105                  | 472,620              | 501,510            | 2                     | 11                    | 20,220                   | 12                             | 152            | 14.8                  | 41.5               | 88.3              | 25.0                                | 28.6                       | 105.4                      |
| 634<br>635   | 1,3,5,7,11,15,17,18,19,25,26,27,29,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,11,15,17,18,19,25,26,27,29,37,38A,38B,48,38D,38E,42,44             | 572,550<br>580,420 | 108.4<br>109.9  | 25<br>27                  | 10<br>10  | 102<br>105           | 494,760<br>502,630   | 538,780<br>539,230 | 0                     | 11<br>11              | 69,380<br>65,450         | 11<br>11                       | 173<br>174     | 13<br>10.4            | 50.3<br>50.8       | 0.0               | 0.0                                 | 26.2<br>26.2               | 246.1<br>246.1             |
| 636          | 1,3,5,7,11,15,17,18,19,25,26,27,29,37,36A,36B,46,38E,42,44  | 567,650            | 103.5           | 28                        | 10        | 103                  | 489,860              | 536,230            | 0                     | 11                    | 59,730                   | 11                             | 175            | 10.4                  | 45.5               | 71.6              | 3.4                                 | 26.2                       | 242.0                      |
| 637          | 1,3,5,7,11,15,17,18,19,25,26,27,29,37,38A,45,47,41B,42,44   | 570,610            | 108.1           | 28                        | 10        | 105                  | 492,820              | 539,190            | 0                     | 11                    | 59,890                   | 13                             | 170            | 11.2                  | 46                 | 141.0             | 11.6                                | 26.2                       | 250.3                      |
| 638<br>639   | 1,3,5,7,11,15,17,18,19,25,26,27,29,37,39,41A,41B,42,44  | 566,340<br>538,350 | 107.3<br>102    | 26<br>21                  | 10<br>12  | 108<br>102           | 488,550<br>381,550   | 512,230<br>512,560 | 0 2                   | 11<br>11              | 61,990<br>63,500         | 13<br>11                       | 168<br>186     | 13.1<br>15.7          | 46.8<br>47.8       | 146.5<br>0.0      | 21.6<br>0.0                         | 26.2<br>26.2               | 257.6<br>115.0             |
| 640          | 1,3,5,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44<br>1,3,5,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 | 546,220            | 103.5           | 23                        | 12        | 102                  | 381,550              | 512,560            | 2                     | 11                    | 59,570                   | 11                             | 187            | 13.1                  | 47.8               | 0.0               | 0.0                                 | 26.2                       | 115.0                      |
| 641          | 1,3,5,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,45,46,38E,42,44   | 533,450            | 101             | 24                        | 12        | 103                  | 376,650              | 510,010            | 2                     | 11                    | 53,860                   | 11                             | 188            | 13                    | 43                 | 71.6              | 3.4                                 | 26.2                       | 110.9                      |
| 642          | 1,3,5,7,11,15,17,18,19,25,26,27,30,31,36,37,38A,45,47,41B,42,44   | 536,410            | 101.6           | 24                        | 12        | 105                  | 379,610              | 512,970            | 2                     | 11                    | 54,020                   | 13                             | 183            | 13.9                  | 43.6               | 141.0             | 11.6                                | 26.2                       | 119.2                      |
| 643<br>644   | 1,3,5,7,11,15,17,18,19,25,26,27,30,31,36,37,39,41A,41B,42,44<br>1,3,5,7,11,15,17,18,19,25,26,27,30,31,40,41A,41B,42,44                        | 532,140<br>523,610 | 100.8<br>99.2   | 22                        | 12<br>13  | 108<br>103           | 375,340<br>352,060   | 486,000<br>487,560 | 2                     | 11<br>13              | 56,110<br>54,060         | 13<br>13                       | 181<br>182     | 15.8<br>12.5          | 44.3<br>39         | 146.5<br>201.4    | 21.6<br>32.8                        | 26.2<br>26.2               | 126.5<br>124.9             |
| 645          | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  | 554,440            | 105             | 22                        | 12        | 99                   | 471,020              | 528,650            | 0                     | 13                    | 63,500                   | 13                             | 162            | 12.6                  | 45.7               | 0.0               | 0.0                                 | 26.2                       | 139.2                      |
| 646          | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44   | 562,310            | 106.5           | 24                        | 12        | 102                  | 478,900              | 529,090            | 0                     | 13                    | 59,570                   | 13                             | 163            | 10                    | 46.3               | 0.0               | 0.0                                 | 26.2                       | 139.2                      |
| 647<br>648   | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1.3,5,7,11,15,17,18,19,25,26,27,30,32,34,36,37,38A,45,47,41B,42,44      | 549,540<br>552,500 | 104.1<br>104.6  | 25<br>25                  | 12<br>12  | 100<br>102           | 466,130<br>469,080   | 526,100<br>529,050 | 0                     | 13<br>13              | 53,860<br>54,020         | 13<br>15                       | 164<br>159     | 10<br>10.8            | 41<br>41.5         | 71.6<br>141.0     | 3.4<br>11.6                         | 26.2<br>26.2               | 135.1<br>143.4             |
| 649          | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,34,36,37,39,41A,41B,42,44   | 548,220            | 104.8           | 23                        | 12        | 102                  | 464,810              | 502,090            | 0                     | 13                    | 56,110                   | 15                             | 157            | 12.7                  | 42.3               | 141.0             | 21.6                                | 26.2                       | 150.7                      |
| 650          | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,34,40,41A,41B,42,44   | 539,700            | 102.2           | 24                        | 13        | 100                  | 441,540              | 503,650            | 0                     | 15                    | 54,060                   | 15                             | 158            | 9.5                   | 37                 | 201.4             | 32.8                                | 26.2                       | 149.1                      |
| 651          | 1,3,5,7,11,15,17,18,19,25,26,27,30,32,35,43,44  | 535,320            | 101.4           | 22                        | 13        | 101                  | 466,630              | 511,530            | 0                     | 12                    | 20,220                   | 14                             | 159            | 7.9                   | 36.1               | 88.3              | 25.0                                | 26.2                       | 137.5                      |
| 652<br>653   | 1,3,5,7,11,15,17,18,19,25,26,28,33,43,44<br>1,3,5,7,11,15,17,20,23,26,27,29,37,38A,38B,38C,38D,38E,42,44                                      | 542,230<br>555,580 | 102.7<br>105.2  | 21                        | 13<br>10  | 103<br>102           | 431,670<br>478,320   | 518,440<br>540,270 | 0                     | 12<br>11              | 20,220<br>69,380         | 14<br>11                       | 177<br>158     | 12.3<br>13.2          | 41.6<br>48.8       | 88.3<br>0.0       | 25.0<br>0.0                         | 26.2<br>26.2               | 148.7<br>212.1             |
| 654          | 1,3,5,7,11,15,17,20,23,26,27,29,37,38A,38B,48,38D,38E,42,44   | 563,450            | 106.7           | 28                        | 10        | 105                  | 486,190              | 540,710            | 0                     | 11                    | 65,450                   | 11                             | 159            | 10.6                  | 49.4               | 0.0               | 0.0                                 | 26.2                       | 212.1                      |
| 655          | 1,3,5,7,11,15,17,20,23,26,27,29,37,38A,45,46,38E,42,44  | 550,680            | 104.3           | 29                        | 10        | 103                  | 473,420              | 537,720            | 0                     | 11                    | 59,730                   | 11                             | 160            | 10.6                  | 44.1               | 71.6              | 3.4                                 | 26.2                       | 208.0                      |
| 656<br>657   | 1,3,5,7,11,15,17,20,23,26,27,29,37,38A,45,47,41B,42,44  | 553,640<br>549,360 | 104.9<br>104    | 29<br>27                  | 10<br>10  | 105<br>108           | 476,380<br>472,110   | 540,670<br>513,710 | 0                     | 11                    | 59,890<br>61,990         | 13<br>13                       | 155<br>153     | 11.4<br>13.3          | 44.6<br>45.4       | 141.0<br>146.5    | 11.6<br>21.6                        | 26.2<br>26.2               | 216.3<br>223.6             |
| 658          | 1,3,5,7,11,15,17,20,23,26,27,29,37,39,41A,41B,42,44<br>1,3,5,7,11,15,17,20,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44                     | 549,360            | 98.7            | 22                        | 12        | 108                  | 365,110              | 513,710            | 2                     | 11<br>11              | 63,500                   | 11                             | 171            | 15.9                  | 45.4               | 0.0               | 0.0                                 | 26.2                       | 81.0                       |
| 659          | 1,3,5,7,11,15,17,20,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 529,250            | 100.2           | 24                        | 12        | 105                  | 372,980              | 514,490            | 2                     | 11                    | 59,570                   | 11                             | 172            | 13.3                  | 46.9               | 0.0               | 0.0                                 | 26.2                       | 81.0                       |
| 660          | 1,3,5,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,46,38E,42,44  | 516,480            | 97.8            | 25                        | 12        | 103                  | 360,210              | 511,490            | 2                     | 11                    | 53,860                   | 11                             | 173            | 13.3                  | 41.6               | 71.6              | 3.4                                 | 26.2                       | 76.9                       |
| 661<br>662   | 1,3,5,7,11,15,17,20,23,26,27,30,31,36,37,38A,45,47,41B,42,44<br>1,3,5,7,11,15,17,20,23,26,27,30,31,36,37,39,41A,41B,42,44                     | 519,430<br>515,160 | 98.4<br>97.6    | 25<br>23                  | 12<br>12  | 105<br>108           | 363,170<br>358,900   | 514,450<br>487,490 | 2                     | 11<br>11              | 54,020<br>56,110         | 13<br>13                       | 168<br>166     | 14.1<br>16            | 42.2<br>42.9       | 141.0<br>146.5    | 11.6<br>21.6                        | 26.2<br>26.2               | 85.2<br>92.5               |
| 663          | 1,3,5,7,11,15,17,20,23,26,27,30,31,40,41A,41B,42,44   | 506,640            | 96              | 22                        | 13        | 103                  | 335,620              | 489,040            | 2                     | 13                    | 54,060                   | 13                             | 167            | 12.8                  | 37.6               | 201.4             | 32.8                                | 26.2                       | 90.9                       |
| 664          | 1,3,5,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 537,460            | 101.8           | 23                        | 12        | 99                   | 454,580              | 530,130            | 0                     | 13                    | 63,500                   | 13                             | 147            | 12.8                  | 44.3               | 0.0               | 0.0                                 | 26.2                       | 105.2                      |
| 665<br>666   | 1,3,5,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1.3.5,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44       | 545,330<br>532,560 | 103.3<br>100.9  | 25<br>26                  | 12<br>12  | 102<br>100           | 462,450<br>449,680   | 530,580<br>527,580 | 0                     | 13<br>13              | 59,570<br>53,860         | 13<br>13                       | 148<br>149     | 10.2<br>10.2          | 44.9<br>39.6       | 0.0<br>71.6       | 0.0<br>3.4                          | 26.2<br>26.2               | 105.2<br>101.1             |
| 667          | 1,3,5,7,11,15,17,20,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 535,520            | 100.9           | 26                        | 12        | 102                  | 452,640              | 530,540            | 0                     | 13                    | 54,020                   | 15                             | 144            | 11                    | 40.1               | 141.0             | 11.6                                | 26.2                       | 109.4                      |
| 668          | 1,3,5,7,11,15,17,20,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 531,250            | 100.6           | 24                        | 12        | 105                  | 448,370              | 503,570            | 0                     | 13                    | 56,110                   | 15                             | 142            | 12.9                  | 40.9               | 146.5             | 21.6                                | 26.2                       | 116.7                      |
| 669          | 1,3,5,7,11,15,17,20,23,26,27,30,32,34,40,41A,41B,42,44  | 522,720            | 99              | 25                        | 13        | 100                  | 425,100              | 505,130            | 0                     | 15                    | 54,060                   | 15                             | 143            | 9.7                   | 35.6               | 201.4             | 32.8                                | 26.2                       | 115.1                      |
| 670<br>671   | 1,3,5,7,11,15,17,20,23,26,27,30,32,35,43,44<br>1,3,5,7,11,15,17,20,23,26,28,33,43,44  | 518,350<br>525,250 | 98.2<br>99.5    | 23                        | 13<br>13  | 101<br>103           | 450,190<br>415,230   | 513,010<br>519,920 | 0                     | 12<br>12              | 20,220<br>20,220         | 14<br>14                       | 144<br>162     | 8.1<br>12.5           | 34.7<br>40.2       | 88.3<br>88.3      | 25.0<br>25.0                        | 26.2<br>26.2               | 103.5<br>114.7             |
| 672          | 1,3,5,7,11,15,17,20,24,27,29,37,38A,38B,38C,38D,38E,42,44   | 552,800            | 104.7           | 23                        | 10        | 102                  | 477,190              | 537,490            | 0                     | 11                    | 69,380                   | 11                             | 158            | 13.2                  | 48.5               | 0.0               | 0.0                                 | 26.2                       | 210.8                      |
| 673          | 1,3,5,7,11,15,17,20,24,27,29,37,38A,38B,48,38D,38E,42,44  | 560,670            | 106.2           | 25                        | 10        | 105                  | 485,060              | 537,940            | 0                     | 11                    | 65,450                   | 11                             | 159            | 10.6                  | 49.1               | 0.0               | 0.0                                 | 26.2                       | 210.8                      |
| 674<br>675   | 1,3,5,7,11,15,17,20,24,27,29,37,38A,45,46,38E,42,44<br>1,3,5,7,11,15,17,20,24,27,29,37,38A,45,47,41B,42,44                                    | 547,900<br>550,860 | 103.8<br>104.3  | 26<br>26                  | 10<br>10  | 103<br>105           | 472,290<br>475,250   | 534,940<br>537,900 | 0                     | 11<br>11              | 59,730<br>59,890         | 11                             | 160<br>155     | 10.6<br>11.4          | 43.8<br>44.3       | 71.6<br>141.0     | 3.4<br>11.6                         | 26.2<br>26.2               | 206.7<br>215.0             |
| 676          | 1,3,5,7,11,15,17,20,24,27,29,37,39,41,41B,42,44   | 546,590            | 104.5           | 24                        | 10        | 103                  | 470,970              | 510,940            | 0                     | 11                    | 61,990                   | 13                             | 153            | 13.3                  | 45.1               | 146.5             | 21.6                                | 26.2                       | 222.3                      |
| 677          | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44   | 518,600            | 98.2            | 19                        | 12        | 102                  | 363,980              | 511,270            | 2                     | 11                    | 63,500                   | 11                             | 171            | 15.9                  | 46.1               | 0.0               | 0.0                                 | 26.2                       | 79.7                       |
| 678          | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44  | 526,470            | 99.7            | 21                        | 12        | 105                  | 371,850              | 511,720            | 2                     | 11                    | 59,570                   | 11                             | 172            | 13.3                  | 46.6               | 0.0               | 0.0                                 | 26.2                       | 79.7                       |
| 679<br>680   | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,45,46,38E,42,44<br>1,3,5,7,11,15,17,20,24,27,30,31,36,37,38A,45,47,41B,42,44                        | 513,700<br>516,660 | 97.3<br>97.9    | 22                        | 12<br>12  | 103<br>105           | 359,080<br>362,040   | 508,720<br>511,680 | 2                     | 11<br>11              | 53,860<br>54,020         | 11<br>13                       | 173<br>168     | 13.3<br>14.1          | 41.3<br>41.9       | 71.6<br>141.0     | 3.4<br>11.6                         | 26.2<br>26.2               | 75.6<br>83.9               |
| 681          | 1,3,5,7,11,15,17,20,24,27,30,31,36,37,39,418,418,42,44  | 512,390            | 97              | 20                        | 12        | 108                  | 357,760              | 484,710            | 2                     | 11                    | 56,110                   | 13                             | 166            | 16                    | 42.6               | 146.5             | 21.6                                | 26.2                       | 91.2                       |
| 682          | 1,3,5,7,11,15,17,20,24,27,30,31,40,41A,41B,42,44  | 503,860            | 95.4            | 19                        | 13        | 103                  | 334,490              | 486,270            | 2                     | 13                    | 54,060                   | 13                             | 167            | 12.8                  | 37.3               | 201.4             | 32.8                                | 26.2                       | 89.6                       |
| 683<br>684   | 1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44          | 534,690<br>542,560 | 101.3<br>102.8  | 20                        | 12<br>12  | 99<br>102            | 453,450<br>461,320   | 527,360<br>527,800 | 0                     | 13<br>13              | 63,500<br>59,570         | 13<br>13                       | 147<br>148     | 12.8<br>10.2          | 44<br>44.6         | 0.0               | 0.0                                 | 26.2<br>26.2               | 103.9<br>103.9             |
| 685          | 1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,38A,45,46,38E,42,44             | 542,560            | 102.8           | 23                        | 12        | 102                  | 448,550              | 524,800            | 0                     | 13                    | 53,860                   | 13                             | 148            | 10.2                  | 39.3               | 71.6              | 3.4                                 | 26.2                       | 99.8                       |
| 686          | 1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 532,750            | 100.9           | 23                        | 12        | 102                  | 451,510              | 527,760            | 0                     | 13                    | 54,020                   | 15                             | 144            | 11                    | 39.8               | 141.0             | 11.6                                | 26.2                       | 108.1                      |
| 687          | 1,3,5,7,11,15,17,20,24,27,30,32,34,36,37,39,41A,41B,42,44   | 528,470            | 100.1           | 21                        | 12        | 105                  | 447,240              | 500,800            | 0                     | 13                    | 56,110                   | 15                             | 142            | 12.9                  | 40.5               | 146.5             | 21.6                                | 26.2                       | 115.4                      |
| 688<br>689   | 1,3,5,7,11,15,17,20,24,27,30,32,34,40,41A,41B,42,44<br>1,3,5,7,11,15,17,20,24,27,30,32,35,43,44   | 519,950<br>515,570 | 98.5<br>97.6    | 22                        | 13<br>13  | 100<br>101           | 423,960<br>449,050   | 502,360<br>510,240 | 0                     | 15<br>12              | 54,060<br>20,220         | 15<br>14                       | 143<br>144     | 9.7<br>8.1            | 35.2<br>34.4       | 201.4<br>88.3     | 32.8<br>25.0                        | 26.2<br>26.2               | 113.8<br>102.2             |
| 690          | 1,3,5,7,11,15,17,20,24,27,30,32,33,43,44  | 522,480            | 99              | 21                        | 13        | 103                  | 414,100              | 517,150            | 0                     | 12                    | 20,220                   | 14                             | 162            | 12.5                  | 39.9               | 88.3              | 25.0                                | 26.2                       | 113.5                      |
| 691          | 1,3,5,7,11,16,21,23,26,27,29,37,38A,38B,38C,38D,38E,42,44   | 567,660            | 107.5           | 25                        | 10        | 103                  | 520,700              | 555,470            | 0                     | 11                    | 69,380                   | 11                             | 160            | 14.6                  | 49.1               | 0.0               | 0.0                                 | 26.2                       | 215.1                      |
| 692<br>693   | 1,3,5,7,11,16,21,23,26,27,29,37,38A,38B,48,38D,38E,42,44<br>1,3,5,7,11,16,21,23,26,27,29,37,38A,45,46,38E,42,44                               | 575,530<br>562,760 | 109<br>106.6    | 27<br>28                  | 10        | 106                  | 528,570<br>515,800   | 555,910            | 0                     | 11<br>11              | 65,450                   | 11<br>11                       | 161            | 12<br>12              | 49.6<br>44.3       | 0.0<br>71.6       | 0.0<br>3.4                          | 26.2<br>26.2               | 215.1<br>211.0             |
| 593          | 1,5,5,1,11,10,21,25,20,21,29,51,38A,45,40,38E,42,44   | 562,760            | 4.00.6          | 28                        | 10        | 104                  | 212,800              | 552,910            | U                     | 11                    | 59,730                   | 11                             | 162            | 12                    | 44.3               | /1.6              | 5.4                                 | 20.2                       | Z11.U                      |

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| Route 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                           | Segments  1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44  1,3,5,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44  1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44 | Total Length (ft)  565,720  561,440  533,460  541,330  528,560  531,520  527,240  518,720  549,540  557,410  544,640  547,600  543,330   | Total Length (mi) 107.1 106.3 101 102.5 100.1 100.7 99.9 98.2 104.1 105.6                  | Angles Over 30 Degrees (count) 28 26 21 23 24 24 22 21 22 21 | Crossings (count)  10  10  12  12  12  12  12 | Other Roadway Crossings (count) 106 109 103 106 104 106            | Length Not Along Existing Transmission Line (feet) 518,760 514,480 407,490 415,360 402,590 | Length Not<br>Along<br>Roads<br>(feet)<br>555,870<br>528,910<br>529,240<br>529,690 | Oil/Gas<br>Wells/Tanks<br>in ROW<br>(count)<br>0<br>0 | Number of Pipeline Crossings (count)  11  11 | Mined Area<br>(feet)<br>59,890<br>61,990               | Transmission Line Crossings (count) 13 13 | Stream<br>Crossings<br>(count)<br>157<br>155 | Waterbodies<br>in ROW<br>(acres)<br>12.8<br>14.7 | Wetlands in<br>ROW<br>(acres)<br>44.9 | Gray Bat<br>Critical<br>Habitat in<br>ROW<br>(acres)<br>141.0<br>146.5 | Woodland within<br>Gray Bat Critical<br>Habitat in ROW<br>(acres)<br>11.6<br>21.6 |  | Broadhead<br>Skink State<br>Critical Habitat<br>in ROW<br>(acres)<br>219.3<br>226.6 |
|---|---|--|--|--|---|--|--|--|---|--|--|---|--|--|---------------------------------------|--|---|--|---|
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                       | Length (ft)  565,720  561,440  533,460  541,330  528,560  531,520  527,240  518,720  549,540  557,410  544,640  547,600                  | Length (mi) 107.1 106.3 101 102.5 100.1 100.7 99.9 98.2 104.1 105.6                        | Degrees (count)  28  26  21  23  24  24  22  21              | Crossings (count)  10  10  12  12  12  12  12 | Roadway<br>Crossings<br>(count)<br>106<br>109<br>103<br>106<br>104 | Along Existing Transmission Line (feet) 518,760 514,480 407,490 415,360                    | Along<br>Roads<br>(feet)<br>555,870<br>528,910<br>529,240                          | Wells/Tanks in ROW (count)  0  0 2                    | Pipeline<br>Crossings<br>(count)<br>11       | Through Previously Mined Area (feet) 59,890 61,990     | Line Crossings<br>(count)                 | Crossings<br>(count)                         | in ROW<br>(acres)<br>12.8                        | ROW<br>(acres)<br>44.9                | Critical Habitat in ROW (acres)  | Gray Bat Critical<br>Habitat in ROW<br>(acres)                                    | Spotted Skunk<br>Critical Habitat<br>in ROW<br>(acres) | Skink State<br>Critical Habitat<br>in ROW<br>(acres)<br>219.3                       |
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                       | Length (ft)  565,720  561,440  533,460  541,330  528,560  531,520  527,240  518,720  549,540  557,410  544,640  547,600                  | Length (mi) 107.1 106.3 101 102.5 100.1 100.7 99.9 98.2 104.1 105.6                        | Degrees (count)  28  26  21  23  24  24  22  21              | Crossings (count)  10  10  12  12  12  12  12 | Roadway<br>Crossings<br>(count)<br>106<br>109<br>103<br>106<br>104 | Along Existing Transmission Line (feet) 518,760 514,480 407,490 415,360                    | Along<br>Roads<br>(feet)<br>555,870<br>528,910<br>529,240                          | Wells/Tanks in ROW (count)  0  0 2                    | Pipeline<br>Crossings<br>(count)<br>11       | Through Previously Mined Area (feet) 59,890 61,990     | Line Crossings<br>(count)                 | Crossings<br>(count)                         | in ROW<br>(acres)<br>12.8                        | ROW<br>(acres)<br>44.9                | Critical Habitat in ROW (acres)  | Gray Bat Critical<br>Habitat in ROW<br>(acres)                                    | Spotted Skunk<br>Critical Habitat<br>in ROW<br>(acres) | Skink State<br>Critical Habitat<br>in ROW<br>(acres)<br>219.3                       |
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                                  | Length (ft)  565,720  561,440  533,460  541,330  528,560  531,520  527,240  518,720  549,540  557,410  544,640  547,600                  | Length (mi) 107.1 106.3 101 102.5 100.1 100.7 99.9 98.2 104.1 105.6                        | Degrees (count)  28  26  21  23  24  24  22  21              | Crossings (count)  10  10  12  12  12  12  12 | Roadway<br>Crossings<br>(count)<br>106<br>109<br>103<br>106<br>104 | Transmission Line (feet) 518,760 514,480 407,490 415,360                                   | Along<br>Roads<br>(feet)<br>555,870<br>528,910<br>529,240                          | Wells/Tanks in ROW (count)  0  0 2                    | Pipeline<br>Crossings<br>(count)<br>11       | Previously<br>Mined Area<br>(feet)<br>59,890<br>61,990 | Line Crossings<br>(count)                 | Crossings<br>(count)                         | in ROW<br>(acres)<br>12.8                        | ROW<br>(acres)<br>44.9                | Habitat in<br>ROW<br>(acres)<br>141.0                                  | Gray Bat Critical<br>Habitat in ROW<br>(acres)                                    | Critical Habitat<br>in ROW<br>(acres)<br>26.2          | Critical Habitat<br>in ROW<br>(acres)<br>219.3                                      |
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                                  | Length (ft)  565,720  561,440  533,460  541,330  528,560  531,520  527,240  518,720  549,540  557,410  544,640  547,600                  | Length (mi) 107.1 106.3 101 102.5 100.1 100.7 99.9 98.2 104.1 105.6                        | Degrees (count)  28  26  21  23  24  24  22  21              | Crossings (count)  10  10  12  12  12  12  12 | Crossings (count)  106  109  103  106  104                         | Line<br>(feet)<br>518,760<br>514,480<br>407,490<br>415,360                                 | Roads<br>(feet)<br>555,870<br>528,910<br>529,240                                   | in ROW (count)  0  0  2                               | Crossings (count) 11 11                      | Mined Area<br>(feet)<br>59,890<br>61,990               | Line Crossings<br>(count)                 | Crossings<br>(count)                         | in ROW<br>(acres)<br>12.8                        | ROW<br>(acres)<br>44.9                | ROW<br>(acres)<br>141.0  | Habitat in ROW<br>(acres)<br>11.6   | in ROW<br>(acres)<br>26.2                              | in ROW<br>(acres)<br>219.3  |
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                                  | (ft)<br>565,720<br>561,440<br>533,460<br>541,330<br>528,560<br>531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600 | (mi)<br>107.1<br>106.3<br>101<br>102.5<br>100.1<br>100.7<br>99.9<br>98.2<br>104.1<br>105.6 | (count)  28  26  21  23  24  24  22  21                      | 10<br>10<br>12<br>12<br>12<br>12<br>12<br>12  | (count)  106  109  103  106  104                                   | (feet)<br>518,760<br>514,480<br>407,490<br>415,360   | (feet)<br>555,870<br>528,910<br>529,240  | (count)<br>0<br>0<br>2                                | (count) 11 11                                | (feet)<br>59,890<br>61,990                             | (count)                                   | (count)<br>157                               | (acres)<br>12.8                                  | (acres)<br>44.9                       | (acres)<br>141.0   | (acres)<br>11.6   | (acres)<br>26.2  | (acres)<br>219.3  |
| 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                 | 1,3,5,7,11,16,21,23,26,27,29,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,29,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44                                  | 565,720<br>561,440<br>533,460<br>541,330<br>528,560<br>531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600         | 107.1<br>106.3<br>101<br>102.5<br>100.1<br>100.7<br>99.9<br>98.2<br>104.1<br>105.6         | 28<br>26<br>21<br>23<br>24<br>24<br>22<br>21                 | 10<br>10<br>12<br>12<br>12<br>12<br>12<br>12  | 106<br>109<br>103<br>106<br>104                                    | 518,760<br>514,480<br>407,490<br>415,360   | 555,870<br>528,910<br>529,240  | 0 0 2   | 11<br>11                                     | 59,890<br>61,990                                       | 13  | 157  | 12.8   | 44.9                                  | 141.0  | 11.6  | 26.2   | 219.3   |
| 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714                                     | 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 561,440<br>533,460<br>541,330<br>528,560<br>531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600                    | 106.3<br>101<br>102.5<br>100.1<br>100.7<br>99.9<br>98.2<br>104.1<br>105.6                  | 26<br>21<br>23<br>24<br>24<br>22<br>21                       | 10<br>12<br>12<br>12<br>12<br>12<br>12        | 109<br>103<br>106<br>104   | 514,480<br>407,490<br>415,360  | 528,910<br>529,240   | 2   | 11   | 61,990   |   |  | _  | 1                                     |  |   |  |   |
| 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44  | 533,460<br>541,330<br>528,560<br>531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600                               | 101<br>102.5<br>100.1<br>100.7<br>99.9<br>98.2<br>104.1<br>105.6                           | 21<br>23<br>24<br>24<br>22<br>22                             | 12<br>12<br>12<br>12<br>12                    | 103<br>106<br>104  | 407,490<br>415,360   | 529,240  | 2   |  | · · · · · · · · · · · · · · · · · · ·                  | v   |  |  |                                       |  |   |  | . ZZU.U   |
| 698<br>699<br>700<br>701<br>702<br>703<br>704<br>705<br>706<br>707<br>708<br>709<br>710<br>711<br>712<br>713<br>714 | 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 528,560<br>531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600   | 100.1<br>100.7<br>99.9<br>98.2<br>104.1<br>105.6   | 24<br>24<br>22<br>21   | 12<br>12<br>12                                | 104  | · · · · · ·  | 529,690  |   |  | 63,500   | 11  | 173  | 17.3   | 46.6                                  | 0.0  | 0.0   | 26.2   | 83.9  |
| 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,31,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44   | 531,520<br>527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600  | 100.7<br>99.9<br>98.2<br>104.1<br>105.6  | 24<br>22<br>21   | 12<br>12                                      | _  | 402 E00  |  | 2   | 11   | 59,570   | 11  | 174  | 14.7   | 47.1                                  | 0.0  | 0.0   | 26.2   | 83.9  |
| 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,31,36,37,39,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 527,240<br>518,720<br>549,540<br>557,410<br>544,640<br>547,600   | 99.9<br>98.2<br>104.1<br>105.6   | 22 21  | 12  | 106  | 402,390  | 526,690  | 2   | 11   | 53,860   | 11  | 175  | 14.6   | 41.9                                  | 71.6   | 3.4   | 26.2   | 79.8  |
| 701 702 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,31,40,41A,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | 518,720<br>549,540<br>557,410<br>544,640<br>547,600  | 98.2<br>104.1<br>105.6   | 21   |   |  | 405,550  | 529,650  | 2   | 11   | 54,020   | 13  | 170  | 15.5   | 42.4                                  | 141.0  | 11.6  | 26.2   | 88.2  |
| 702 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 549,540<br>557,410<br>544,640<br>547,600   | 104.1<br>105.6   | +  | 4.0   | 109  | 401,270  | 502,690  | 2   | 11   | 56,110   | 13  | 168  | 17.3   | 43.1                                  | 146.5  | 21.6  | 26.2   | 95.4  |
| 703 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44  | 557,410<br>544,640<br>547,600  | 105.6  | 22   | 13  | 104  | 378,000  | 504,240  | 2   | 13   | 54,060   | 13  | 169  | 14.1   | 37.8                                  | 201.4  | 32.8  | 26.2   | 93.9  |
| 704 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | 544,640<br>547,600   |  | 22   | 12  | 100  | 496,960  | 545,330  | 0   | 13   | 63,500   | 13  | 149  | 14.2   | 44.6                                  | 0.0  | 0.0   | 26.2   | 108.1   |
| 705 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | 547,600  |  | 24   | 12  | 103  | 504,830  | 545,770  | 0   | 13   | 59,570   | 13  | 150  | 11.6   | 45.1                                  | 0.0  | 0.0   | 26.2   | 108.1   |
| 706 707 708 709 710 711 712 713 714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,36,37,39,41A,41B,42,44   | , , , , , , , ,  | 103.2  | 25   | 12  | 101  | 492,060  | 542,780  | 0   | 13   | 53,860   | 13  | 151  | 11.6   | 39.8                                  | 71.6   | 3.4   | 26.2   | 104.0   |
| 707<br>708<br>709<br>710<br>711<br>712<br>713<br>714  |   | 543 330  | 103.7  | 25   | 12  | 103  | 495,020  | 545,730  | 0   | 13   | 54,020   | 15  | 146  | 12.4   | 40.3                                  | 141.0  | 11.6  | 26.2   | 112.4   |
| 708<br>709<br>710<br>711<br>712<br>713<br>714   | 1,3,5,7,11,16,21,23,26,27,30,32,34,40,41A,41B,42,44   | 343,330  | 102.9  | 23   | 12  | 106  | 490,750  | 518,770  | 0   | 13   | 56,110   | 15  | 144  | 14.3   | 41.1                                  | 146.5  | 21.6  | 26.2   | 119.6   |
| 709 710 711 712 713 714   |   | 534,800  | 101.3  | 24   | 13  | 101  | 467,470  | 520,330  | 0   | 15   | 54,060   | 15  | 145  | 11.1   | 35.8                                  | 201.4  | 32.8  | 26.2   | 118.1   |
| 710<br>711<br>712<br>713<br>714   | 1,3,5,7,11,16,21,23,26,27,30,32,35,43,44  | 530,430  | 100.5  | 22   | 13  | 102  | 492,560  | 528,210  | 0   | 12   | 20,220   | 14  | 146  | 9.5  | 34.9                                  | 88.3   | 25.0  | 26.2   | 106.5   |
| 711<br>712<br>713<br>714  | 1,3,5,7,11,16,21,23,26,28,33,43,44  | 537,340  | 101.8  | 21   | 13  | 104  | 457,600  | 535,120  | 0   | 12   | 20,220   | 14  | 164  | 13.9   | 40.4                                  | 88.3   | 25.0  | 26.2   | 117.7   |
| 712<br>713<br>714   | 1,3,5,7,11,16,21,24,27,29,37,38A,38B,38C,38D,38E,42,44  | 564,880  | 107  | 24   | 10  | 103  | 519,560  | 552,690  | 0   | 11   | 69,380   | 11  | 160  | 14.6   | 48.8                                  | 0.0  | 0.0   | 26.2   | 213.8   |
| 713<br>714  | 1,3,5,7,11,16,21,24,27,29,37,38A,38B,48,38D,38E,42,44   | 572,750  | 108.5  | 26   | 10  | 106  | 527,440  | 553,140  | 0   | 11   | 65,450   | 11  | 161  | 12   | 49.3                                  | 0.0  | 0.0   | 26.2   | 213.8   |
| 714   | 1,3,5,7,11,16,21,24,27,29,37,38A,45,46,38E,42,44  | 559,980  | 106.1  | 27   | 10  | 104  | 514,670  | 550,140  | 0   | 11   | 59,730   | 11  | 162  | 12   | 44                                    | 71.6   | 3.4   | 26.2   | 209.7   |
|   | 1,3,5,7,11,16,21,24,27,29,37,38A,45,47,41B,42,44  | 562,940  | 106.6  | 27   | 10  | 106  | 517,630  | 553,100  | 0   | 11   | 59,890   | 13  | 157  | 12.8   | 44.6                                  | 141.0  | 11.6  | 26.2   | 218.0   |
|   | 1,3,5,7,11,16,21,24,27,29,37,39,41A,41B,42,44   | 558,670  | 105.8  | 25   | 10  | 109  | 513,350  | 526,140  | 0   | 11   | 61,990   | 13  | 155  | 14.7   | 45.3                                  | 146.5  | 21.6  | 26.2   | 225.3   |
| 715   | 1,3,5,7,11,16,21,24,27,30,31,36,37,38A,38B,38C,38D,38E,42,44  | 530,680  | 100.5  | 20   | 12  | 103  | 406,350  | 526,470  | 2   | 11   | 63,500   | 11  | 173  | 17.3   | 46.3                                  | 0.0  | 0.0   | 26.2   | 82.6  |
| 716   | 1,3,5,7,11,16,21,24,27,30,31,36,37,38A,38B,48,38D,38E,42,44   | 538,550  | 102  | 22   | 12  | 106  | 414,230  | 526,910  | 2   | 11   | 59,570   | 11  | 174  | 14.7   | 46.8                                  | 0.0  | 0.0   | 26.2   | 82.6  |
| 717   | 1,3,5,7,11,16,21,24,27,30,31,36,37,38A,45,46,38E,42,44  | 525,780  | 99.6   | 23   | 12  | 104  | 401,460  | 523,920  | 2   | 11   | 53,860   | 11  | 175  | 14.6   | 41.6                                  | 71.6   | 3.4   | 26.2   | 78.6  |
| 718   | 1,3,5,7,11,16,21,24,27,30,31,36,37,38A,45,47,41B,42,44  | 528,740  | 100.1  | 23   | 12  | 106  | 404,410  | 526,870  | 2   | 11   | 54,020   | 13  | 170  | 15.5   | 42.1                                  | 141.0  | 11.6  | 26.2   | 86.9  |
| 719   | 1,3,5,7,11,16,21,24,27,30,31,36,37,39,41A,41B,42,44   | 524,470  | 99.3   | 21   | 12  | 109  | 400,140  | 499,910  | 2   | 11   | 56,110   | 13  | 168  | 17.3   | 42.8                                  | 146.5  | 21.6  | 26.2   | 94.2  |
| 720   | 1,3,5,7,11,16,21,24,27,30,31,40,41A,41B,42,44   | 515,940  | 97.7   | 20   | 13  | 104  | 376,870  | 501,470  | 2   | 13   | 54,060   | 13  | 169  | 14.1   | 37.5                                  | 201.4  | 32.8  | 26.2   | 92.6  |
| 721   | 1,3,5,7,11,16,21,24,27,30,32,34,36,37,38A,38B,38C,38D,38E,42,44   | 546,770  | 103.6  | 21   | 12  | 100  | 495,830  | 542,560  | 0   | 13   | 63,500   | 13  | 149  | 14.2   | 44.2                                  | 0.0  | 0.0   | 26.2   | 106.8   |
| 722   | 1,3,5,7,11,16,21,24,27,30,32,34,36,37,38A,38B,48,38D,38E,42,44  | 554,640  | 105  | 23   | 12  | 103  | 503,700  | 543,000  | 0   | 13   | 59,570   | 13  | 150  | 11.6   | 44.8                                  | 0.0  | 0.0   | 26.2   | 106.8   |
| 723<br>724  | 1,3,5,7,11,16,21,24,27,30,32,34,36,37,38A,45,46,38E,42,44<br>1,3,5,7,11,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44  | 541,870<br>544,830   | 102.6<br>103.2   | 24   | 12<br>12                                      | 101<br>103   | 490,930<br>493,890   | 540,000<br>542,960   | 0   | 13<br>13                                     | 53,860<br>54,020                                       | 13<br>15                                  | 151<br>146                                   | 11.6<br>12.4                                     | 39.5<br>40                            | 71.6   | 3.4<br>11.6   | 26.2<br>26.2   | 102.8<br>111.1  |
| 724   | 1,3,5,7,11,16,21,24,27,30,32,34,36,37,38A,45,47,41B,42,44<br>1,3,5,7,11,16,21,24,27,30,32,34,36,37,39,41A,41B,42,44   | 544,830  | 103.2  | 24   | 12  | 103  | 493,890  | 542,960  | 0   | 13   | 54,020   | 15  | 146  | 12.4   | 40.8                                  | 141.0<br>146.5   | 21.6  | 26.2   | 111.1   |
| 726   | 1,3,5,7,11,16,21,24,27,30,32,34,30,37,39,41A,41B,42,44  | 532,030  | 102.4  | 23   | 13  | 100  | 466,340  | 517,550  | 0   | 15   | 54,060   | 15  | 145  | 14.3   | 35.5                                  | 201.4  | 32.8  | 26.2   | 116.8   |
| 727   | 1,3,5,7,11,16,21,24,27,30,32,34,40,41A,41B,42,44  | 532,030  | 99.9   | 23   | 13  | 101  | 491,430  | 525.440  | 0   | 12   | 20,220   | 14  | 145  | 9.5  | 34.6                                  | 88.3   | 25.0  | 26.2   | 105.2   |
| 727   | 1,3,5,7,11,16,21,24,27,30,32,35,43,44   | 534,560  | 101.2  | 22   | 13  | 102  | 456,470  | 532,340  | 0   | 12   | 20,220   | 14  | 164  | 13.9   | 40.1                                  | 88.3   | 25.0  | 26.2   | 116.4   |
| 729   | 1,3,5,7,11,16,22,33,43,44   | 510.590  | 96.7   | 20   | 13  | 104  | 475,780  | 508.380  | 2   | 12   | 20,220   | 12  | 150  | 13.9   | 38.9                                  | 88.3   | 25.0  | 26.2   | 105.4   |
| 123   | 1,3,3,7,111,10,22,33,43,44  | 310,330  | 30.7   | 20   | 13  | 100  | 4/3,/60  | 300,300  |   | 14   | 20,220   | 12  | 130  | 13   | 30.3                                  | 00.3   | 23.0  | 20.2   | 103.4   |
|   |   | 631.420  | 119.6  | 29   | 14  | 110  | 538.570  | 555.910  | 3   | 18   | 69.380   | 15  | 210  | 20   | 55.4                                  | 201.4  | 32.8  | 205.9  | 257.6   |
| <b> </b>  | May   | 536,299.7  | 101.6  | 20.2   | 11.8  | 102.7  | 448,736.2  | 510,908.0  | 1.0   | 11.5   | 54,359.5   | 12.1                                      | 164.0  | 13.6   | 44.4                                  | 87.2   | 12.0  | 54.8   | 138.2   |
|   | Max<br>Average  |  | 91.9   | 12   | 10  | 96   | 329.070  | 449.800  |   |  |  |   | -0   |  |                                       | U  |   |  |   |
|   | Max<br>Average<br>Min   | 485.280  | 3 2.3  |  |   |  |  |  | 0   | 10   | 20.220   | 9   | 137  | 7.9  | 32.2                                  | 0.0  | 0.0   | 26.2   | 75.6  |

|               | Sensitive<br>Species<br>Score | Woodland in C  | Cropland in<br>ROW | Rangeland in ROW | NRHP Sites<br>within 1/4<br>Mile | Archaeological<br>Sites within<br>ROW | Parcels<br>Crossed | Residences | Residences<br>within 300 feet | Residences<br>within 500 feet | Residential<br>Proximity<br>Score | Businesses<br>within 300<br>feet | Public<br>Facilities<br>within<br>500 feet | Outbuildings<br>in ROW | Length Not<br>Along Parcel<br>Boundary | Low Karst<br>Risk  | Medium<br>Karst Risk | High Karst<br>Risk | Floodplain     | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat | Total<br>Length<br>Karst |
|---------------|-------------------------------|----------------|--------------------|------------------|----------------------------------|---------------------------------------|--------------------|------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|--|------------------------|--|--------------------|----------------------|--------------------|----------------|---|--------------------------|
| Route         | (score)                       | (acres)        | (acres)            | (acres)          | (count)                          | (count)                               | (count)            | (count)    | (count)                       | (count)                       | (score)                           | (count)                          | (count)                                    | (count)                | (feet)                                 | (feet)             | (feet)               | (feet)             | (acres)        | (count)   | (feet)                   |
| 2             | 876.3<br>860.0                | 424.3<br>408.0 | 490.2<br>521.8     | 1024.8<br>1044.9 | 0                                | 1                                     | 335<br>343         | 2          | 14<br>13                      | 14<br>15                      | 50<br>49                          | 0                                | 0  | 5<br>5                 | 250,090<br>254,550                     | 124,420<br>124,420 | 152,130<br>152,130   | 63,280<br>63,280   | 213.1<br>215.9 | 0   | 339,830<br>339,830       |
| 3             | 846.4                         | 391.7          | 520.9              | 1047.3           | 0                                | 1                                     | 337                | 1          | 12                            | 13                            | 41                                | 0                                | 0  | 5                      | 251,170                                | 124,420            | 152,130              | 63,280             | 216.2          | 0   | 339,830                  |
| <u>4</u><br>5 | 868.0<br>902.5                | 388.6<br>395.8 | 526.8<br>509.2     | 1053.5<br>1040.9 | 0                                | 1                                     | 347<br>340         | 2          | 12<br>17                      | 13<br>15                      | 41<br>57                          | 0                                | 0  | 5<br>5                 | 250,890                                | 124,420            | 152,130<br>152,130   | 63,280             | 209.5<br>212.1 | 0   | 339,830                  |
| 6             | 613.5                         | 292.6          | 509.2              | 965.3            | 0                                | 0                                     | 340                | 5          | 15                            | 17                            | 67                                | 0                                | 1  | 5                      | 231,590<br>294,630                     | 124,420<br>151,300 | 135,790              | 63,280<br>49,850   | 212.1          | 0   | 339,830<br>336,940       |
| 7             | 597.1                         | 276.2          | 631.1              | 985.4            | 0                                | 0                                     | 323                | 5          | 14                            | 18                            | 66                                | 0                                | 0  | 5                      | 299,090                                | 151,300            | 135,790              | 49,850             | 218.2          | 0   | 336,940                  |
| 8             | 583.6<br>605.2                | 260.0<br>256.9 | 630.2<br>636.1     | 987.9<br>994.0   | 0                                | 0                                     | 317<br>327         | 4          | 13<br>13                      | 16<br>16                      | 58<br>58                          | 0                                | 0  | 5<br>5                 | 295,710<br>295,440                     | 151,300<br>151,300 | 135,790<br>135,790   | 49,850<br>49,850   | 218.5<br>211.8 | 0   | 336,940<br>336,940       |
| 10            | 639.7                         | 264.1          | 618.5              | 981.5            | 0                                | 0                                     | 320                | 5          | 18                            | 18                            | 74                                | 1                                | 0  | 5                      | 276,140                                | 151,300            | 135,790              | 49,850             | 214.4          | 0   | 336,940                  |
| 11<br>12      | 658.5<br>662.4                | 262.1<br>317.3 | 654.8<br>647.9     | 925.5<br>949.6   | 0                                | 0                                     | 324<br>317         | 1 4        | 22<br>14                      | 15<br>16                      | 63<br>60                          | 0                                | 2  | 6<br>3                 | 309,580<br>283,170                     | 140,480<br>158,200 | 133,410<br>138,900   | 49,850<br>49,850   | 237.7<br>222.6 | 0   | 323,740<br>346,950       |
| 13            | 646.0                         | 300.9          | 679.6              | 969.7            | 0                                | 0                                     | 325                | 4          | 13                            | 17                            | 59                                | 0                                | 1  | 3                      | 287,630                                | 158,200            | 138,900              | 49,850             | 225.4          | 0   | 346,950                  |
| 14            | 632.5                         | 284.7          | 678.7              | 972.1            | 0                                | 0                                     | 319                | 3          | 12                            | 15                            | 51                                | 0                                | 1  | 3                      | 284,250                                | 158,200            | 138,900              | 49,850             | 225.7          | 0   | 346,950                  |
| 15<br>16      | 654.1<br>688.6                | 281.6<br>288.8 | 684.6<br>667.0     | 978.3<br>965.7   | 0                                | 0                                     | 329<br>322         | 3 4        | 12<br>17                      | 15<br>17                      | 51<br>67                          | 0                                | 1  | 3                      | 283,970<br>264,680                     | 158,200<br>158,200 | 138,900<br>138,900   | 49,850<br>49,850   | 219.0<br>221.6 | 0   | 346,950<br>346,950       |
| 17            | 707.4                         | 286.8          | 703.2              | 909.7            | 0                                | 0                                     | 326                | 0          | 21                            | 14                            | 56                                | 0                                | 1  | 4                      | 298,120                                | 147,380            | 136,520              | 49,850             | 244.9          | 0   | 333,750                  |
| 18<br>19      | 680.7<br>702.4                | 287.3          | 691.9              | 919.2            | 0                                | 1                                     | 321<br>319         | 0          | 15<br>15                      | 10<br>8                       | 48<br>38                          | 0                                | 0  | 4                      | 299,280                                | 171,380            | 119,430              | 49,850<br>56,310   | 253.1<br>267.8 | 0   | 340,660<br>329,290       |
| 20            | 678.9                         | 297.8<br>367.1 | 667.3<br>554.8     | 952.6<br>859.0   | 0                                | 1                                     | 327                | 2          | 15                            | 14                            | 52                                | 0                                | 1  | 3                      | 323,930<br>353,810                     | 152,990<br>114,490 | 119,990<br>137,840   | 56,210             | 213.6          | 0   | 308,540                  |
| 21            | 662.5                         | 350.7          | 586.5              | 879.1            | 0                                | 1                                     | 335                | 2          | 14                            | 15                            | 51                                | 0                                | 0  | 3                      | 358,270                                | 114,490            | 137,840              | 56,210             | 216.4          | 0   | 308,540                  |
| 22            | 649.0<br>670.6                | 334.5<br>331.4 | 585.6<br>591.4     | 881.6<br>887.7   | 0                                | 1                                     | 329<br>339         | 1          | 13<br>13                      | 13<br>13                      | 43<br>43                          | 0                                | 0  | 3                      | 354,890<br>354,620                     | 114,490<br>114,490 | 137,840<br>137,840   | 56,210<br>56,210   | 216.7<br>210.0 | 0   | 308,540<br>308,540       |
| 24            | 705.1                         | 338.6          | 573.9              | 875.2            | 0                                | 1                                     | 332                | 2          | 18                            | 15                            | 59                                | 1                                | 0  | 3                      | 335,320                                | 114,490            | 137,840              | 56,210             | 212.6          | 0   | 308,540                  |
| 25            | 416.1<br>399.7                | 235.4          | 664.2              | 799.5            | 0                                | 0                                     | 307                | 5<br>5     | 16                            | 17                            | 69                                | 0                                | 0  | 3                      | 398,360                                | 141,380            | 121,510              | 42,780             | 215.9          | 0   | 305,670                  |
| 26<br>27      | 399.7                         | 219.0<br>202.7 | 695.8<br>694.9     | 819.7<br>822.1   | 0                                | 0                                     | 315<br>309         | 4          | 15<br>14                      | 18<br>16                      | 68<br>60                          | 0                                | 0  | 3                      | 402,820<br>399,440                     | 141,380<br>141,380 | 121,510<br>121,510   | 42,780<br>42,780   | 218.7<br>219.0 | 0   | 305,670<br>305,670       |
| 28            | 407.7                         | 199.6          | 700.8              | 828.2            | 0                                | 0                                     | 319                | 4          | 14                            | 16                            | 60                                | 0                                | 0  | 3                      | 399,160                                | 141,380            | 121,510              | 42,780             | 212.3          | 0   | 305,670                  |
| 29<br>30      | 442.3<br>461.1                | 206.9<br>204.9 | 683.2<br>719.4     | 815.7<br>759.7   | 0                                | 0                                     | 312<br>316         | 5<br>1     | 19<br>23                      | 18<br>15                      | 76<br>65                          | 0                                | 0  | 3<br>4                 | 379,860<br>413,300                     | 141,370<br>130,550 | 121,510<br>119,130   | 42,780<br>42,780   | 214.9<br>238.2 | 0   | 305,660<br>292,460       |
| 31            | 465.0                         | 260.1          | 712.6              | 783.8            | 0                                | 0                                     | 309                | 4          | 15                            | 16                            | 62                                | 0                                | 2  | 1                      | 386,890                                | 148,280            | 124,620              | 42,780             | 223.1          | 0   | 315,680                  |
| 32            | 448.6                         | 243.7          | 744.2              | 803.9            | 0                                | 0                                     | 317                | 4          | 14                            | 17                            | 61                                | 0                                | 1  | 1                      | 391,350                                | 148,280            | 124,620              | 42,780             | 225.9          | 0   | 315,680                  |
| 33<br>34      | 435.0<br>456.6                | 227.4<br>224.3 | 743.3<br>749.2     | 806.3<br>812.5   | 0                                | 0                                     | 311<br>321         | 3          | 13<br>13                      | 15<br>15                      | 53<br>53                          | 0                                | 1  | 1                      | 387,970<br>387,700                     | 148,280<br>148,280 | 124,620<br>124,620   | 42,780<br>42,780   | 226.2<br>219.5 | 0   | 315,680<br>315,680       |
| 35            | 491.2                         | 231.6          | 731.7              | 799.9            | 0                                | 0                                     | 314                | 4          | 18                            | 17                            | 69                                | 1                                | 1  | 1                      | 368,400                                | 148,270            | 124,620              | 42,780             | 222.1          | 0   | 315,670                  |
| 36<br>37      | 510.0<br>483.3                | 229.6<br>230.1 | 767.9<br>756.6     | 743.9<br>753.5   | 0                                | 0                                     | 318<br>313         | 2          | 22<br>16                      | 14<br>10                      | 58<br>50                          | 0                                | 1  | 2                      | 401,840<br>403,000                     | 137,450<br>161,450 | 122,240<br>105,140   | 42,780<br>42,780   | 245.4<br>253.6 | 0   | 302,470<br>309,370       |
| 38            | 504.9                         | 240.5          | 732.0              | 786.8            | 0                                | 1                                     | 311                | 0          | 16                            | 8                             | 40                                | 0                                | 0  | 2                      | 427,650                                | 143,060            | 105,700              | 49,240             | 268.3          | 0   | 298,000                  |
| 39<br>40      | 609.9<br>593.5                | 332.1          | 513.3              | 885.7            | 0                                | 1                                     | 316<br>324         | 2          | 14                            | 14<br>15                      | 50<br>49                          | 0                                | 1  | 2                      | 386,950                                | 118,040            | 126,070              | 68,900<br>68,900   | 195.0<br>197.8 | 0   | 313,010                  |
| 41            | 579.9                         | 315.7<br>299.4 | 544.9<br>544.0     | 905.8<br>908.2   | 0                                | 1                                     | 318                | 2          | 13<br>12                      | 13                            | 49                                | 0                                | 0  | 2                      | 391,410<br>388,030                     | 118,040<br>118,040 | 126,070<br>126,070   | 68,900             | 197.8          | 0   | 313,010<br>313,010       |
| 42            | 601.5                         | 296.3          | 549.9              | 914.4            | 0                                | 1                                     | 328                | 1          | 12                            | 13                            | 41                                | 0                                | 0  | 2                      | 387,750                                | 118,040            | 126,070              | 68,900             | 191.4          | 0   | 313,010                  |
| 43            | 636.1<br>347.0                | 303.6<br>200.3 | 532.3<br>622.6     | 901.8<br>826.2   | 0                                | 0                                     | 321<br>296         | 5          | 17<br>15                      | 15<br>17                      | 57<br>67                          | 0                                | 0  | 2                      | 368,450<br>431,490                     | 118,030<br>144,920 | 126,070<br>109,730   | 68,900<br>55,470   | 193.9<br>197.3 | 0   | 313,000<br>310,120       |
| 45            | 330.7                         | 184.0          | 654.3              | 846.3            | 0                                | 0                                     | 304                | 5          | 14                            | 18                            | 66                                | 0                                | 0  | 2                      | 435,950                                | 144,920            | 109,730              | 55,470             | 200.1          | 0   | 310,120                  |
| 46            | 317.1                         | 167.7          | 653.4              | 848.7            | 0                                | 0                                     | 298                | 4          | 13                            | 16                            | 58                                | 0                                | 0  | 2                      | 432,570                                | 144,920            | 109,730              | 55,470             | 200.4          | 0   | 310,120                  |
| 47<br>48      | 338.7<br>373.2                | 164.6<br>171.8 | 659.3<br>641.7     | 854.9<br>842.3   | 0                                | 0                                     | 308<br>301         | 5          | 13<br>18                      | 16<br>18                      | 58<br>74                          | 0                                | 0  | 2                      | 432,300<br>413,000                     | 144,920<br>144,910 | 109,730<br>109,730   | 55,470<br>55,470   | 193.7<br>196.3 | 0   | 310,120<br>310,110       |
| 49            | 392.1                         | 169.9          | 677.9              | 786.3            | 0                                | 0                                     | 305                | 1          | 22                            | 15                            | 63                                | 0                                | 0  | 3                      | 446,440                                | 134,090            | 107,350              | 55,470             | 219.5          | 0   | 296,910                  |
| 50<br>51      | 395.9<br>379.6                | 225.0<br>208.7 | 671.1<br>702.7     | 810.4<br>830.6   | 0                                | 0                                     | 298<br>306         | 4          | 14<br>13                      | 16<br>17                      | 60<br>59                          | 0                                | 2  | 0                      | 420,030<br>424,490                     | 151,820<br>151,820 | 112,840<br>112,840   | 55,470<br>55,470   | 204.5<br>207.3 | 0   | 320,130<br>320,130       |
| 52            | 366.0                         | 192.4          | 701.8              | 833.0            | 0                                | 0                                     | 300                | 3          | 12                            | 15                            | 51                                | 0                                | 1  | 0                      | 421,110                                | 151,820            | 112,840              | 55,470             | 207.6          | 0   | 320,130                  |
| 53            | 387.6                         | 189.3<br>196.5 | 707.7              | 839.1            | 0                                | 0                                     | 310                | 3          | 12<br>17                      | 15                            | 51<br>67                          | 0                                | 1  | 0                      | 420,830<br>401,530                     | 151,820            | 112,840              | 55,470<br>EE 470   | 200.9          | 0   | 320,130                  |
| 54<br>55      | 422.1<br>441.0                | 196.5          | 690.1<br>726.4     | 826.6<br>770.6   | 0                                | 0                                     | 303<br>307         | 0          | 21                            | 17<br>14                      | 56                                | 0                                | 1  | 0<br>1                 | 434,970                                | 151,810<br>140,990 | 112,840<br>110,460   | 55,470<br>55,470   | 203.4<br>226.7 | 0   | 320,120<br>306,920       |
| 56            | 414.3                         | 195.1          | 715.1              | 780.1            | 0                                | 1                                     | 302                | 2          | 15                            | 10                            | 48                                | 0                                | 1  | 1                      | 436,130                                | 164,990            | 93,370               | 55,470             | 235.0          | 0   | 313,830                  |
| 57<br>58      | 435.9<br>607.3                | 205.5<br>330.8 | 690.4<br>511.1     | 813.4<br>879.1   | 0                                | 1                                     | 300<br>314         | 0 2        | 15<br>14                      | 8<br>14                       | 38<br>50                          | 0                                | 0  | 2                      | 460,780<br>388,340                     | 146,600<br>118,040 | 93,930<br>126,070    | 61,930<br>66,090   | 249.7<br>195.0 | 0   | 302,460<br>310,200       |
| 59            | 590.9                         | 314.4          | 542.7              | 899.3            | 0                                | 1                                     | 322                | 2          | 13                            | 15                            | 49                                | 0                                | 0  | 2                      | 392,800                                | 118,040            | 126,070              | 66,090             | 197.8          | 0   | 310,200                  |
| 60            | 577.3                         | 298.1          | 541.8              | 901.7            | 0                                | 1                                     | 316                | 1          | 12                            | 13                            | 41                                | 0                                | 0  | 2                      | 389,420                                | 118,040            | 126,070              | 66,090             | 198.1          | 0   | 310,200                  |
| 61<br>62      | 598.9<br>633.5                | 295.0<br>302.3 | 547.7<br>530.1     | 907.8<br>895.3   | 0                                | 1                                     | 326<br>319         | 2          | 12<br>17                      | 13<br>15                      | 41<br>57                          | 0                                | 0  | 2                      | 389,140<br>369,840                     | 118,040<br>118,030 | 126,070<br>126,070   | 66,090<br>66,090   | 191.4<br>193.9 | 0   | 310,200<br>310,190       |
| 63            | 344.5                         | 199.1          | 620.4              | 819.6            | 0                                | 0                                     | 294                | 5          | 15                            | 17                            | 67                                | 0                                | 1  | 2                      | 432,880                                | 144,920            | 109,730              | 52,660             | 197.3          | 0   | 307,310                  |

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|            | Sensitive<br>Species<br>Score | Woodland in<br>ROW | Cropland in ROW | Rangeland in ROW | NRHP Sites<br>within 1/4<br>Mile | Archaeological<br>Sites within<br>ROW | Parcels<br>Crossed | Residences<br>within 150 feet | Residences<br>within 300 feet | Residences<br>within 500 feet | Residential<br>Proximity<br>Score | Businesses<br>within 300<br>feet | Public<br>Facilities<br>within<br>500 feet | Outbuildings<br>in ROW | Length Not<br>Along Parcel<br>Boundary | Low Karst<br>Risk  | Medium<br>Karst Risk | High Karst<br>Risk | Floodplain     | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat |                    |
|------------|-------------------------------|--------------------|-----------------|------------------|----------------------------------|---------------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|--|------------------------|--|--------------------|----------------------|--------------------|----------------|---|--------------------|
| Route      | (score)                       | (acres)            | (acres)         | (acres)          | (count)                          | (count)                               | (count)            | (count)                       | (count)                       | (count)                       | (score)                           | (count)                          | (count)                                    | (count)                | (feet)                                 | (feet)             | (feet)               | (feet)             | (acres)        | (count)   | (feet)             |
| 64<br>65   | 328.1<br>314.5                | 182.7<br>166.4     | 652.1<br>651.2  | 839.8<br>842.2   | 0                                | 0                                     | 302<br>296         | 5<br>4                        | 14<br>13                      | 18<br>16                      | 66<br>58                          | 0                                | 0  | 2                      | 437,340<br>433,960                     | 144,920<br>144,920 | 109,730<br>109,730   | 52,660<br>52,660   | 200.1          | 0   | 307,310<br>307,310 |
| 66         | 336.1                         | 163.3              | 657.0           | 848.4            | 0                                | 0                                     | 306                | 4                             | 13                            | 16                            | 58                                | 0                                | 0  | 2                      | 433,690                                | 144,920            | 109,730              | 52,660             | 193.7          | 0   | 307,310            |
| 67         | 370.6                         | 170.5              | 639.5           | 835.8            | 0                                | 0                                     | 299                | 5                             | 18                            | 18                            | 74                                | 1                                | 0  | 2                      | 414,390                                | 144,910            | 109,730              | 52,660             | 196.3          | 0   | 307,300            |
| 68<br>69   | 389.5<br>393.4                | 168.6<br>223.8     | 675.7<br>668.9  | 779.8<br>803.9   | 0                                | 0                                     | 303<br>296         | 4                             | 22<br>14                      | 15<br>16                      | 63<br>60                          | 0                                | 0  | 0                      | 447,830<br>421,420                     | 134,090<br>151,820 | 107,350<br>112,840   | 52,660<br>52,660   | 219.5<br>204.5 | 0   | 294,100<br>317,320 |
| 70         | 377.0                         | 207.4              | 700.5           | 824.0            | 0                                | 0                                     | 304                | 4                             | 13                            | 17                            | 59                                | 0                                | 1  | 0                      | 425,880                                | 151,820            | 112,840              | 52,660             | 207.3          | 0   | 317,320            |
| 71         | 363.4                         | 191.1              | 699.6           | 826.4            | 0                                | 0                                     | 298                | 3                             | 12                            | 15                            | 51                                | 0                                | 1  | 0                      | 422,500                                | 151,820            | 112,840              | 52,660             | 207.6          | 0   | 317,320            |
| 72<br>73   | 385.0<br>419.5                | 188.0<br>195.2     | 705.5<br>687.9  | 832.6<br>820.0   | 0                                | 0                                     | 308<br>301         | 3 4                           | 12<br>17                      | 15<br>17                      | 51<br>67                          | 0                                | 1  | 0                      | 422,220<br>402,920                     | 151,820<br>151,810 | 112,840<br>112,840   | 52,660<br>52,660   | 200.9<br>203.4 | 0   | 317,320<br>317,310 |
| 74         | 438.4                         | 193.3              | 724.2           | 764.0            | 0                                | 0                                     | 305                | 0                             | 21                            | 14                            | 56                                | 0                                | 1  | 1                      | 436,370                                | 140,990            | 110,460              | 52,660             | 226.7          | 0   | 304,110            |
| 75         | 411.7                         | 193.8              | 712.9           | 773.6            | 0                                | 1                                     | 300                | 2                             | 15                            | 10                            | 48                                | 0                                | 1  | 1                      | 437,520                                | 164,990            | 93,370               | 52,660             | 235.0          | 0   | 311,020            |
| 76<br>77   | 433.4<br>655.7                | 204.2<br>374.9     | 688.2<br>515.6  | 806.9<br>885.3   | 0                                | 1                                     | 298<br>341         | 2                             | 15<br>13                      | 8<br>18                       | 38<br>52                          | 0                                | 0  | 2                      | 462,170<br>355,970                     | 146,600<br>112,880 | 93,930<br>144,680    | 59,120<br>72,840   | 249.7<br>201.5 | 0   | 299,650<br>330,400 |
| 78         | 639.3                         | 358.5              | 547.2           | 905.4            | 0                                | 1                                     | 349                | 2                             | 12                            | 19                            | 51                                | 0                                | 0  | 2                      | 360,430                                | 112,880            | 144,680              | 72,840             | 204.3          | 0   | 330,400            |
| 79         | 625.8                         | 342.3              | 546.3           | 907.8            | 0                                | 1                                     | 343                | 1                             | 11                            | 17                            | 43                                | 0                                | 0  | 2                      | 357,050                                | 112,880            | 144,680              | 72,840             | 204.6          | 0   | 330,400            |
| 80<br>81   | 647.4<br>681.9                | 339.2<br>346.4     | 552.2<br>534.6  | 914.0<br>901.4   | 0                                | 1                                     | 353<br>346         | 2                             | 11<br>16                      | 17<br>19                      | 43<br>59                          | 0                                | 0  | 2                      | 356,780<br>337,480                     | 112,880<br>112,870 | 144,680<br>144,680   | 72,840<br>72,840   | 197.9<br>200.5 | 0   | 330,400<br>330,390 |
| 82         | 392.8                         | 243.2              | 624.9           | 825.8            | 0                                | 0                                     | 321                | 5                             | 14                            | 21                            | 69                                | 0                                | 1  | 2                      | 400,520                                | 139,760            | 128,350              | 59,420             | 203.8          | 0   | 327,530            |
| 83         | 376.4                         | 226.8              | 656.5           | 845.9            | 0                                | 0                                     | 329                | 5                             | 13                            | 22                            | 68                                | 0                                | 0  | 2                      | 404,980                                | 139,760            | 128,350              | 59,420             | 206.6          | 0   | 327,530            |
| 84<br>85   | 362.8<br>384.5                | 210.5              | 655.6<br>661.5  | 848.3<br>854.5   | 0                                | 0                                     | 323<br>333         | 4                             | 12<br>12                      | 20<br>20                      | 60<br>60                          | 0                                | 0  | 2                      | 401,600<br>401,320                     | 139,760<br>139,760 | 128,350<br>128,350   | 59,420<br>59,420   | 206.9<br>200.2 | 0   | 327,530<br>327,530 |
| 86         | 419.0                         | 214.7              | 644.0           | 841.9            | 0                                | 0                                     | 326                | 5                             | 17                            | 22                            | 76                                | 1                                | 0  | 2                      | 382,020                                | 139,750            | 128,350              | 59,420             | 202.8          | 0   | 327,520            |
| 87         | 437.9                         | 212.7              | 680.2           | 786.0            | 0                                | 0                                     | 330                | 1                             | 21                            | 19                            | 65                                | 0                                | 0  | 3                      | 415,470                                | 128,940            | 125,970              | 59,420             | 226.1          | 0   | 314,330            |
| 88<br>89   | 441.7<br>425.3                | 267.9<br>251.5     | 673.4<br>705.0  | 810.0<br>830.2   | 0                                | 0                                     | 323<br>331         | 4                             | 13<br>12                      | 20<br>21                      | 62<br>61                          | 0                                | 2  | 0                      | 389,050<br>393,510                     | 146,660<br>146,660 | 131,460<br>131,460   | 59,420<br>59,420   | 211.0<br>213.8 | 0   | 337,540<br>337,540 |
| 90         | 411.7                         | 235.2              | 704.1           | 832.6            | 0                                | 0                                     | 325                | 3                             | 11                            | 19                            | 53                                | 0                                | 1  | 0                      | 390,130                                | 146,660            | 131,460              | 59,420             | 214.1          | 0   | 337,540            |
| 91         | 433.4                         | 232.1              | 710.0           | 838.8            | 0                                | 0                                     | 335                | 3                             | 11                            | 19                            | 53                                | 0                                | 1  | 0                      | 389,860                                | 146,660            | 131,460              | 59,420             | 207.4          | 0   | 337,540            |
| 92<br>93   | 467.9<br>486.8                | 239.4              | 692.4<br>728.6  | 826.2<br>770.2   | 0                                | 0                                     | 328<br>332         | 4<br>0                        | 16<br>20                      | 21<br>18                      | 69<br>58                          | 0                                | 1  | 0<br>1                 | 370,560<br>404,000                     | 146,650<br>135,840 | 131,460<br>129,080   | 59,420<br>59,420   | 210.0<br>233.3 | 0   | 337,530<br>324,340 |
| 94         | 460.1                         | 237.9              | 717.3           | 779.7            | 0                                | 1                                     | 327                | 2                             | 14                            | 14                            | 50                                | 0                                | 1  | 1                      | 405,160                                | 159,830            | 111,990              | 59,420             | 241.5          | 0   | 331,240            |
| 95         | 481.7                         | 248.3              | 692.7           | 813.1            | 0                                | 1                                     | 325                | 0                             | 14                            | 12                            | 40                                | 0                                | 0  | 1                      | 429,810                                | 141,440            | 112,540              | 65,870             | 256.2          | 0   | 319,850            |
| 96<br>97   | 653.1<br>636.7                | 373.6<br>357.2     | 513.4<br>545.0  | 878.7<br>898.9   | 0                                | 1                                     | 339<br>347         | 2                             | 13<br>12                      | 18<br>19                      | 52<br>51                          | 0                                | 0  | 2                      | 357,360<br>361,820                     | 112,880<br>112,880 | 144,680<br>144,680   | 70,030<br>70,030   | 201.5<br>204.3 | 0   | 327,590<br>327,590 |
| 98         | 623.2                         | 341.0              | 544.1           | 901.3            | 0                                | 1                                     | 341                | 1                             | 11                            | 17                            | 43                                | 0                                | 0  | 2                      | 358,440                                | 112,880            | 144,680              | 70,030             | 204.6          | 0   | 327,590            |
| 99         | 644.8                         | 337.9              | 550.0           | 907.5            | 0                                | 1                                     | 351                | 1                             | 11                            | 17                            | 43                                | 0                                | 0  | 2                      | 358,170                                | 112,880            | 144,680              | 70,030             | 197.9          | 0   | 327,590            |
| 100<br>101 | 679.3<br>390.2                | 345.1<br>241.9     | 532.4<br>622.7  | 894.9<br>819.3   | 0                                | 0                                     | 344<br>319         | 2<br>5                        | 16<br>14                      | 19<br>21                      | 59<br>69                          | 0                                | 0  | 2                      | 338,870<br>401,910                     | 112,870<br>139,760 | 144,680<br>128,350   | 70,030<br>56,600   | 200.5<br>203.8 | 0   | 327,580<br>324,710 |
| 102        | 373.8                         | 225.5              | 654.3           | 839.4            | 0                                | 0                                     | 327                | 5                             | 13                            | 22                            | 68                                | 0                                | 0  | 2                      | 406,370                                | 139,760            |                      | 56,600             | 206.6          | 0   | 324,710            |
| 103        | 360.4                         | 209.3              | 653.4           | 841.8            | 0                                | 0                                     | 321                | 4                             | 12                            | 20                            | 60                                | 0                                | 0  | 2                      | 402,990                                | 139,760            | 128,350              | 56,600             | 206.9          | 0   | 324,710            |
| 104<br>105 | 381.9<br>416.5                | 206.1              | 659.3<br>641.8  | 848.0<br>835.4   | 0                                | 0                                     | 331<br>324         | 4<br>5                        | 12<br>17                      | 20<br>22                      | 60<br>76                          | 0                                | 0  | 2                      | 402,710<br>383,420                     | 139,760<br>139,750 | 128,350<br>128,350   | 56,600<br>56,600   | 200.2<br>202.8 | 0   | 324,710<br>324,700 |
| 106        | 435.3                         | 211.4              | 678.0           | 779.4            | 0                                | 0                                     | 328                | 1                             | 21                            | 19                            | 65                                | 0                                | 0  | 3                      | 416,860                                | 128,940            | 125,970              | 56,600             | 226.1          | 0   | 311,510            |
| 107        | 439.1                         | 266.6              | 671.2           | 803.5            | 0                                | 0                                     | 321                | 4                             | 13                            | 20                            | 62                                | 0                                | 2  | 0                      | 390,440                                | 146,660            | 131,460              | 56,600             | 211.0          | 0   | 334,720            |
| 108<br>109 | 422.7<br>409.3                | 250.2<br>234.0     | 702.8<br>701.9  | 823.6<br>826.1   | 0                                | 0                                     | 329<br>323         | 3                             | 12<br>11                      | 21<br>19                      | 61<br>53                          | 0                                | 1  | 0                      | 394,910<br>391,520                     | 146,660<br>146,660 | 131,460<br>131,460   | 56,600<br>56,600   | 213.8<br>214.1 | 0   | 334,720<br>334,720 |
| 110        | 430.8                         | 230.8              | 707.8           | 832.2            | 0                                | 0                                     | 333                | 3                             | 11                            | 19                            | 53                                | 0                                | 1  | 0                      | 391,250                                | 146,660            | 131,460              | 56,600             | 207.4          | 0   | 334,720            |
| 111        | 465.4                         | 238.1              | 690.2           | 819.7            | 0                                | 0                                     | 326                | 4                             | 16                            | 21                            | 69                                | 1                                | 1  | 0                      | 371,950                                | 146,650            | 131,460              | 56,600             | 210.0          | 0   | 334,710            |
| 112<br>113 | 484.2<br>457.5                | 236.1<br>236.6     | 726.4<br>715.1  | 763.7<br>773.2   | 0                                | 0                                     | 330<br>325         | 2                             | 20<br>14                      | 18<br>14                      | 58<br>50                          | 0                                | 1  | 1                      | 405,390<br>406,550                     | 135,840<br>159,830 | 129,080<br>111,990   | 56,600<br>56,600   | 233.3<br>241.5 | 0   | 321,520<br>328,420 |
| 114        | 479.1                         | 247.0              | 690.5           | 806.5            | 0                                | 1                                     | 323                | 0                             | 14                            | 12                            | 40                                | 0                                | 0  | 1                      | 431,200                                | 141,440            | 112,540              | 63,060             | 256.2          | 0   | 317,040            |
| 115        | 457.8                         | 236.7              | 674.5           | 750.7            | 0                                | 1                                     | 312                | 0                             | 14                            | 11                            | 39                                | 0                                | 0  | 1                      | 437,840                                | 149,050            | 93,490               | 66,980             | 257.7          | 0   | 309,520            |
| 116<br>117 | 877.9<br>861.5                | 431.2<br>414.8     | 537.2<br>568.8  | 977.1<br>997.2   | 0                                | 2                                     | 334<br>342         | 2                             | 15<br>14                      | 20<br>21                      | 58<br>57                          | 0                                | 0  | 5<br>5                 | 243,720<br>248,180                     | 124,610<br>124,610 | 141,840<br>141,840   | 63,280<br>63,280   | 232.4<br>235.2 | 0   | 329,730<br>329,730 |
| 118        | 847.9                         | 398.5              | 567.9           | 999.7            | 0                                | 2                                     | 336                | 1                             | 13                            | 19                            | 49                                | 0                                | 0  | 5                      | 244,800                                | 124,610            | 141,840              | 63,280             | 235.5          | 0   | 329,730            |
| 119        | 869.5                         | 395.4              | 573.8           | 1005.8           | 0                                | 2                                     | 346                | 1                             | 13                            | 19                            | 49                                | 0                                | 0  | 5                      | 244,530                                | 124,610            | 141,840              | 63,280             | 228.8          | 0   | 329,730            |
| 120<br>121 | 904.1<br>615.0                | 402.7<br>299.4     | 556.2<br>646.5  | 993.3<br>917.6   | 0                                | 2                                     | 339<br>314         | 2<br>5                        | 18<br>16                      | 21<br>23                      | 65<br>75                          | 0                                | 0  | 5<br>5                 | 225,230<br>288,270                     | 124,600<br>151,490 | 141,840<br>125,500   | 63,280<br>49,850   | 231.3<br>234.7 | 0   | 329,720<br>326,840 |
| 122        | 598.7                         | 283.1              | 678.1           | 937.8            | 0                                | 1                                     | 322                | 5                             | 15                            | 24                            | 74                                | 0                                | 0  | 5                      | 292,730                                | 151,490            | 125,500              | 49,850             | 237.5          | 0   | 326,840            |
| 123        | 585.1                         | 266.8              | 677.2           | 940.2            | 0                                | 1                                     | 316                | 4                             | 14                            | 22                            | 66                                | 0                                | 0  | 5                      | 289,350                                | 151,490            | 125,500              | 49,850             | 237.8          | 0   | 326,840            |
| 124<br>125 | 606.7<br>641.2                | 263.7<br>270.9     | 683.1<br>665.6  | 946.3<br>933.8   | 0                                | 1                                     | 326<br>319         | 4<br>5                        | 14<br>19                      | 22<br>24                      | 66<br>82                          | 0                                | 0  | 5<br>5                 | 289,070<br>269,770                     | 151,490<br>151,480 | 125,500<br>125,500   | 49,850<br>49,850   | 231.1<br>233.7 | 0   | 326,840<br>326,830 |
| 126        | 660.1                         | 269.0              | 701.8           | 877.8            | 0                                | 1                                     | 323                | 1                             | 23                            | 21                            | 71                                | 0                                | 0  | 6                      | 303,220                                | 140,670            |                      | 49,850             | 256.9          | 0   | 313,640            |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 127        | 663.9                                    | 324.1                         | 695.0                         | 901.9                          | 0   | 1  | 316                           | 4  | 15                                       | 22                                       | 68   | 0   | 2   | 3                                 | 276,800  | 158,390                     | 128,610                        | 49,850                       | 241.9                 | 0  | 336,850            |
| 128<br>129 | 647.6<br>634.0                           | 307.8<br>291.5                | 726.6<br>725.7                | 922.0<br>924.4                 | 0   | 1  | 324<br>318                    | 3  | 14<br>13                                 | 23<br>21                                 | 67<br>59                                     | 0   | 1   | 3                                 | 281,270<br>277,880                               | 158,390<br>158,390          | 128,610<br>128,610             | 49,850<br>49,850             | 244.7<br>245.0        | 0  | 336,850<br>336,850 |
| 130        | 655.6                                    | 288.4                         | 731.6                         | 930.6                          | 0   | 1  | 328                           | 3  | 13                                       | 21                                       | 59   | 0   | 1   | 3                                 | 277,610  | 158,390                     | 128,610                        | 49,850                       | 238.3                 | 0  | 336,850            |
| 131        | 690.1                                    | 295.6                         | 714.0                         | 918.0                          | 0   | 1  | 321                           | 4  | 18                                       | 23                                       | 75   | 1   | 1   | 3                                 | 258,310  | 158,380                     | 128,610                        | 49,850                       | 240.9                 | 0  | 336,840            |
| 132        | 709.0                                    | 293.7                         | 750.2                         | 862.0                          | 0   | 1  | 325                           | 0  | 22                                       | 20                                       | 64   | 0   | 1   | 4                                 | 291,750  | 147,570                     | 126,230                        | 49,850                       | 264.1                 | 0  | 323,650            |
| 133        | 682.3                                    | 294.2                         | 738.9                         | 871.5                          | 0   | 2  | 320                           | 2  | 16                                       | 16                                       | 56   | 0   | 1   | 4                                 | 292,910  | 171,560                     | 109,140                        | 49,850                       | 272.4                 | 0  | 330,550            |
| 134<br>135 | 703.9<br>680.3                           | 304.6<br>373.9                | 714.3<br>601.9                | 904.9<br>811.3                 | 0   | 2  | 318<br>326                    | 0 2                                      | 16<br>16                                 | 14<br>20                                 | 46<br>60                                     | 0   | 0   | 3                                 | 317,560<br>347,450                               | 153,170<br>114,680          | 109,690<br>127,550             | 56,310<br>56,210             | 287.1<br>232.9        | 0  | 319,170<br>298,440 |
| 136        | 664.0                                    | 357.6                         | 633.5                         | 831.5                          | 0   | 2  | 334                           | 2  | 15                                       | 21                                       | 59   | 0   | 0   | 3                                 | 351,910  | 114,680                     | 127,550                        | 56,210                       | 235.7                 | 0  | 298,440            |
| 137        | 650.4                                    | 341.3                         | 632.6                         | 833.9                          | 0   | 2  | 328                           | 1  | 14                                       | 19                                       | 51   | 0   | 0   | 3                                 | 348,530  | 114,680                     | 127,550                        | 56,210                       | 236.0                 | 0  | 298,440            |
| 138        | 672.0                                    | 338.2                         | 638.5                         | 840.0                          | 0   | 2  | 338                           | 1  | 14                                       | 19                                       | 51   | 0   | 0   | 3                                 | 348,250  | 114,680                     | 127,550                        | 56,210                       | 229.3                 | 0  | 298,440            |
| 139        | 706.5                                    | 345.4                         | 620.9                         | 827.5                          | 0   | 2  | 331                           | 2  | 19                                       | 21                                       | 67   | 1   | 0   | 3                                 | 328,950  | 114,670                     | 127,550                        | 56,210                       | 231.9                 | 0  | 298,430            |
| 140<br>141 | 417.5<br>401.2                           | 242.2<br>225.9                | 711.2<br>742.8                | 751.8<br>772.0                 | 0   | 1  | 306<br>314                    | 5<br>5                                   | 17<br>16                                 | 23<br>24                                 | 77<br>76                                     | 0   | 0   | 3                                 | 391,990<br>396,450                               | 141,560<br>141,560          | 111,210<br>111,210             | 42,780<br>42,780             | 235.2<br>238.0        | 0  | 295,550<br>295,550 |
| 141        | 387.6                                    | 209.6                         | 742.8                         | 774.4                          | 0   | 1  | 308                           | 4  | 15                                       | 22                                       | 68   | 0   | 0   | 3                                 | 393,070  | 141,560                     | 111,210                        | 42,780                       | 238.3                 | 0  | 295,550            |
| 143        | 409.2                                    | 206.5                         | 747.8                         | 780.6                          | 0   | 1  | 318                           | 4  | 15                                       | 22                                       | 68   | 0   | 0   | 3                                 | 392,800  | 141,560                     | 111,210                        | 42,780                       | 231.6                 | 0  | 295,550            |
| 144        | 443.7                                    | 213.7                         | 730.2                         | 768.0                          | 0   | 1  | 311                           | 5  | 20                                       | 24                                       | 84   | 1   | 0   | 3                                 | 373,500  | 141,560                     | 111,210                        | 42,780                       | 234.2                 | 0  | 295,550            |
| 145        | 462.5                                    | 211.7                         | 766.5                         | 712.0                          | 0   | 1  | 315                           | 4  | 24                                       | 21                                       | 73   | 0   | 0   | 1                                 | 406,940  | 130,740                     | 108,840                        | 42,780<br>42,780             | 257.5                 | 0  | 282,360<br>305,570 |
| 146<br>147 | 466.4<br>450.1                           | 266.9<br>250.6                | 759.6<br>791.3                | 736.1<br>756.2                 | 0   | 1  | 308<br>316                    | 4  | 16<br>15                                 | 23                                       | 70<br>69                                     | 0   | 1   | 1                                 | 380,530<br>384,990                               | 148,460<br>148,460          | 114,330<br>114,330             | 42,780                       | 242.4<br>245.2        | 0  | 305,570            |
| 148        | 436.5                                    | 234.3                         | 790.4                         | 758.6                          | 0   | 1  | 310                           | 3  | 14                                       | 21                                       | 61   | 0   | 1   | 1                                 | 381,610  | 148,460                     | 114,330                        | 42,780                       | 245.5                 | 0  | 305,570            |
| 149        | 458.1                                    | 231.2                         | 796.2                         | 764.8                          | 0   | 1  | 320                           | 3  | 14                                       | 21                                       | 61   | 0   | 1   | 1                                 | 381,330  | 148,460                     | 114,330                        | 42,780                       | 238.8                 | 0  | 305,570            |
| 150        | 492.6                                    | 238.4                         | 778.7                         | 752.2                          | 0   | 1  | 313                           | 4  | 19                                       | 23                                       | 77   | 1   | 1   | 1                                 | 362,030  | 148,460                     | 114,330                        | 42,780                       | 241.4                 | 0  | 305,570            |
| 151        | 511.4                                    | 236.4                         | 814.9                         | 696.2                          | 0   | 1  | 317                           | 0  | 23                                       | 20                                       | 66   | 0   | 1   | 2                                 | 395,480  | 137,640                     | 111,950                        | 42,780                       | 264.7                 | 0  | 292,370            |
| 152<br>153 | 484.8<br>506.4                           | 237.0<br>247.4                | 803.6<br>779.0                | 705.8<br>739.1                 | 0   | 2  | 312<br>310                    | 0  | 17<br>17                                 | 16<br>14                                 | 58<br>48                                     | 0   | 0   | 2                                 | 396,640<br>421,280                               | 161,630<br>143,250          | 94,850<br>95,410               | 42,780<br>49,240             | 272.9<br>287.6        | 0  | 299,260<br>287,900 |
| 154        | 611.3                                    | 338.9                         | 560.3                         | 838.0                          | 0   | 2  | 315                           | 2  | 15                                       | 20                                       | 58   | 0   | 1   | 2                                 | 380,580  | 118,220                     | 115,780                        | 68,900                       | 214.2                 | 0  | 302,900            |
| 155        | 594.9                                    | 322.5                         | 592.0                         | 858.1                          | 0   | 2  | 323                           | 2  | 14                                       | 21                                       | 57   | 0   | 0   | 2                                 | 385,040  | 118,220                     | 115,780                        | 68,900                       | 217.0                 | 0  | 302,900            |
| 156        | 581.4                                    | 306.3                         | 591.1                         | 860.5                          | 0   | 2  | 317                           | 1  | 13                                       | 19                                       | 49   | 0   | 0   | 2                                 | 381,660  | 118,220                     | 115,780                        | 68,900                       | 217.3                 | 0  | 302,900            |
| 157<br>158 | 603.0<br>637.5                           | 303.2<br>310.4                | 596.9<br>579.4                | 866.7<br>854.1                 | 0   | 2 2  | 327<br>320                    | 2  | 13<br>18                                 | 19<br>21                                 | 49<br>65                                     | 0   | 0   | 2                                 | 381,390<br>362,090                               | 118,220<br>118,220          | 115,780<br>115,780             | 68,900<br>68,900             | 210.6<br>213.2        | 0  | 302,900<br>302,900 |
| 159        | 348.5                                    | 207.2                         | 669.7                         | 778.5                          | 0   | 1  | 295                           | 5  | 16                                       | 23                                       | 75   | 0   | 1   | 2                                 | 425,130  | 145,100                     | 99,440                         | 55,470                       | 216.6                 | 0  | 300,010            |
| 160        | 332.1                                    | 190.8                         | 701.3                         | 798.6                          | 0   | 1  | 303                           | 5  | 15                                       | 24                                       | 74   | 0   | 0   | 2                                 | 429,590  | 145,100                     | 99,440                         | 55,470                       | 219.4                 | 0  | 300,010            |
| 161        | 318.6                                    | 174.6                         | 700.4                         | 801.0                          | 0   | 1  | 297                           | 4  | 14                                       | 22                                       | 66   | 0   | 0   | 2                                 | 426,210  | 145,100                     | 99,440                         | 55,470                       | 219.7                 | 0  | 300,010            |
| 162        | 340.1                                    | 171.4                         | 706.3                         | 807.2                          | 0   | 1  | 307                           | 4  | 14                                       | 22                                       | 66   | 0   | 0   | 2                                 | 425,930  | 145,100                     | 99,440                         | 55,470                       | 213.0                 | 0  | 300,010            |
| 163<br>164 | 374.7<br>393.5                           | 178.7<br>176.7                | 688.7<br>724.9                | 794.6<br>738.6                 | 0   | 1  | 300<br>304                    | 5  | 19<br>23                                 | 24<br>21                                 | 82<br>71                                     | 0   | 0   | 3                                 | 406,630<br>440,070                               | 145,100                     | 99,440<br>97,060               | 55,470<br>55,470             | 215.5<br>238.8        | 0  | 300,010<br>286,810 |
| 165        | 393.3                                    | 231.9                         | 724.9                         | 762.7                          | 0   | 1  | 297                           | 4  | 15                                       | 22                                       | 68   | 0   | 2   | 0                                 | 413,660  | 134,280<br>152,000          | 102,550                        | 55,470                       | 223.8                 | 0  | 310,020            |
| 166        | 381.0                                    | 215.5                         | 749.7                         | 782.9                          | 0   | 1  | 305                           | 4  | 14                                       | 23                                       | 67   | 0   | 1   | 0                                 | 418,120  | 152,000                     | 102,550                        | 55,470                       | 226.6                 | 0  | 310,020            |
| 167        | 367.5                                    | 199.3                         | 748.8                         | 785.3                          | 0   | 1  | 299                           | 3  | 13                                       | 21                                       | 59   | 0   | 1   | 0                                 | 414,740  | 152,000                     | 102,550                        | 55,470                       | 226.9                 | 0  | 310,020            |
| 168        | 389.0                                    | 196.1                         | 754.7                         | 791.5                          | 0   | 1  | 309                           | 3  | 13                                       | 21                                       | 59   | 0   | 1   | 0                                 | 414,470  | 152,000                     | 102,550                        | 55,470                       | 220.2                 | 0  | 310,020            |
| 169<br>170 | 423.6<br>442.4                           | 203.4                         | 737.2<br>773.4                | 778.9<br>722.9                 | 0   | 1  | 302<br>306                    | 0  | 18<br>22                                 | 23<br>20                                 | 75<br>64                                     | 0   | 1   | 0                                 | 395,170<br>428,610                               | 152,000<br>141,180          | 102,550<br>100,170             | 55,470<br>55,470             | 222.7<br>246.0        | 0  | 310,020<br>296,820 |
| 171        | 415.7                                    | 201.4                         | 762.1                         | 732.4                          | 0   | 2  | 301                           | 2  | 16                                       | 16                                       | 56   | 0   | 1   | 1                                 | 429,770  | 165,170                     | 83,080                         | 55,470                       | 254.3                 | 0  | 303,720            |
| 172        | 437.3                                    | 212.3                         | 737.5                         | 765.7                          | 0   | 2  | 299                           | 0  | 16                                       | 14                                       | 46   | 0   | 0   | 1                                 | 454,420  | 146,790                     | 83,640                         | 61,930                       | 268.9                 | 0  | 292,360            |
| 173        | 608.7                                    | 337.6                         | 558.1                         | 831.4                          | 0   | 2  | 313                           | 2  | 15                                       | 20                                       | 58   | 0   | 1   | 2                                 | 381,970  | 118,220                     | 115,780                        | 66,090                       | 214.2                 | 0  | 300,090            |
| 174        | 592.4                                    | 321.3                         | 589.7                         | 851.6                          | 0   | 2  | 321                           | 2  | 14                                       | 21                                       | 57<br>49                                     | 0   | 0   | 2                                 | 386,430  | 118,220                     | 115,780                        | 66,090                       | 217.0                 | 0  | 300,090            |
| 175<br>176 | 578.8<br>600.4                           | 305.0<br>301.9                | 588.9<br>594.7                | 854.0<br>860.1                 | 0   | 2  | 315<br>325                    | 1 1                                      | 13<br>13                                 | 19<br>19                                 | 49   | 0   | 0   | 2                                 | 383,050<br>382,780                               | 118,220<br>118,220          | 115,780<br>115,780             | 66,090<br>66,090             | 217.3<br>210.6        | 0  | 300,090            |
| 177        | 634.9                                    | 309.1                         | 577.2                         | 847.6                          | 0   | 2  | 318                           | 2  | 18                                       | 21                                       | 65   | 1   | 0   | 2                                 | 363,480  | 118,220                     | 115,780                        | 66,090                       | 213.2                 | 0  | 300,090            |
| 178        | 345.9                                    | 205.9                         | 667.5                         | 771.9                          | 0   | 1  | 293                           | 5  | 16                                       | 23                                       | 75   | 0   | 1   | 2                                 | 426,520  | 145,100                     | 99,440                         | 52,660                       | 216.6                 | 0  | 297,200            |
| 179        | 329.5                                    | 189.5                         | 699.1                         | 792.1                          | 0   | 1  | 301                           | 5  | 15                                       | 24                                       | 74   | 0   | 0   | 2                                 | 430,980  | 145,100                     | 99,440                         | 52,660                       | 219.4                 | 0  | 297,200            |
| 180<br>181 | 316.0<br>337.6                           | 173.3<br>170.2                | 698.2<br>704.1                | 794.5<br>800.7                 | 0   | 1  | 295<br>305                    | 4  | 14<br>14                                 | 22                                       | 66<br>66                                     | 0   | 0   | 2                                 | 427,600<br>427,320                               | 145,100<br>145,100          | 99,440<br>99,440               | 52,660<br>52,660             | 219.7<br>213.0        | 0  | 297,200<br>297,200 |
| 182        | 372.1                                    | 170.2                         | 686.5                         | 788.1                          | 0   | 1  | 298                           | 5  | 19                                       | 24                                       | 82   | 1   | 0   | 2                                 | 408,020  | 145,100                     | 99,440                         | 52,660                       | 215.0                 | 0  | 297,200            |
| 183        | 390.9                                    | 175.4                         | 722.7                         | 732.1                          | 0   | 1  | 302                           | 1  | 23                                       | 21                                       | 71   | 0   | 0   | 3                                 | 441,460  | 134,280                     | 97,060                         | 52,660                       | 238.8                 | 0  | 284,000            |
| 184        | 394.8                                    | 230.6                         | 715.9                         | 756.2                          | 0   | 1  | 295                           | 4  | 15                                       | 22                                       | 68   | 0   | 2   | 0                                 | 415,050  | 152,000                     | 102,550                        | 52,660                       | 223.8                 | 0  | 307,210            |
| 185        | 378.4                                    | 214.2                         | 747.5                         | 776.3                          | 0   | 1  | 303                           | 4  | 14                                       | 23                                       | 67   | 0   | 1   | 0                                 | 419,510  | 152,000                     | 102,550                        | 52,660                       | 226.6                 | 0  | 307,210            |
| 186<br>187 | 364.9<br>386.5                           | 198.0<br>194.9                | 746.6<br>752.5                | 778.7<br>784.9                 | 0   | 1  | 297<br>307                    | 3  | 13<br>13                                 | 21<br>21                                 | 59<br>59                                     | 0   | 1   | 0                                 | 416,130<br>415,860                               | 152,000<br>152,000          | 102,550<br>102,550             | 52,660<br>52,660             | 226.9<br>220.2        | 0  | 307,210<br>307,210 |
| 188        | 421.0                                    | 202.1                         | 735.0                         | 772.3                          | 0   | 1  | 300                           | 4  | 18                                       | 23                                       | 75   | 1   | 1   | 0                                 | 396,560  | 152,000                     | 102,550                        | 52,660                       | 220.2                 | 0  | 307,210            |
| 189        | 439.8                                    | 200.1                         | 771.2                         | 716.4                          | 0   | 1  | 304                           | 0  | 22                                       | 20                                       | 64   | 0   | 1   | 1                                 | 430,000  | 141,180                     | 100,170                        |                              | 246.0                 | 0  | 294,010            |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 190        | 413.1                                    | 200.6                         | 759.9                         | 725.9                          | 0   | 2  | 299                           | 2  | 16                                       | 16                                       | 56   | 0   | 1   | 1                                 | 431,160  | 165,170                     | 83,080                         | 52,660                       | 254.3                 | 0  | 300,910            |
| 191        | 434.9                                    | 211.1                         | 735.3                         | 759.2                          | 0   | 2  | 297                           | 0  | 16                                       | 14                                       | 46   | 0   | 0   | 1                                 | 455,810  | 146,790                     | 83,640                         | 59,120                       | 268.9                 | 0  | 289,550            |
| 192<br>193 | 657.1<br>640.8                           | 381.7<br>365.4                | 562.6<br>594.2                | 837.6<br>857.7                 | 0   | 2  | 340<br>348                    | 2  | 14<br>13                                 | 24<br>25                                 | 60<br>59                                     | 0   | 0   | 2                                 | 349,610<br>354,070                               | 113,060<br>113,060          | 134,390<br>134,390             | 72,840<br>72,840             | 220.8<br>223.6        | 0  | 320,290<br>320,290 |
| 193        | 627.2                                    | 349.1                         | 593.3                         | 860.1                          | 0   | 2  | 342                           | 1  | 12                                       | 23                                       | 51   | 0   | 0   | 2                                 | 350,690  | 113,060                     | 134,390                        | 72,840                       | 223.0                 | 0  | 320,290            |
| 195        | 648.8                                    | 346.0                         | 599.2                         | 866.3                          | 0   | 2  | 352                           | 1  | 12                                       | 23                                       | 51   | 0   | 0   | 2                                 | 350,410  | 113,060                     | 134,390                        | 72,840                       | 217.2                 | 0  | 320,290            |
| 196        | 683.3                                    | 353.2                         | 581.6                         | 853.7                          | 0   | 2  | 345                           | 2  | 17                                       | 25                                       | 67   | 1   | 0   | 2                                 | 331,120  | 113,060                     | 134,390                        | 72,840                       | 219.7                 | 0  | 320,290            |
| 197        | 394.2                                    | 250.0                         | 671.9                         | 778.1                          | 0   | 1  | 320                           | 5  | 15                                       | 27                                       | 77   | 0   | 1   | 2                                 | 394,150  | 139,940                     | 118,060                        | 59,420                       | 223.1                 | 0  | 317,420            |
| 198        | 377.9                                    | 233.7                         | 703.6                         | 798.2                          | 0   | 1  | 328                           | 5  | 14                                       | 28                                       | 76   | 0   | 0   | 2                                 | 398,610  | 139,940                     | 118,060                        | 59,420                       | 225.9                 | 0  | 317,420            |
| 199<br>200 | 364.3<br>386.0                           | 217.4                         | 702.7<br>708.5                | 800.6<br>806.8                 | 0   | 1  | 322<br>332                    | 4  | 13<br>13                                 | 26<br>26                                 | 68<br>68                                     | 0   | 0   | 2                                 | 395,230<br>394,960                               | 139,940<br>139,940          | 118,060<br>118,060             | 59,420<br>59,420             | 226.2<br>219.5        | 0  | 317,420<br>317,420 |
| 200        | 420.4                                    | 214.3                         | 691.0                         | 794.3                          | 0   | 1  | 332                           | 5  | 18                                       | 28                                       | 84   | 1   | 0   | 2                                 | 394,960  | 139,940                     | 118,060                        | 59,420                       | 219.5                 | 0  | 317,420            |
| 202        | 439.4                                    | 219.6                         | 727.2                         | 738.3                          | 0   | 1  | 329                           | 1  | 22                                       | 25                                       | 73   | 0   | 0   | 3                                 | 409,100  | 129,120                     | 115,680                        | 59,420                       | 245.4                 | 0  | 304,220            |
| 203        | 443.1                                    | 274.7                         | 720.4                         | 762.4                          | 0   | 1  | 322                           | 4  | 14                                       | 26                                       | 70   | 0   | 2   | 0                                 | 382,690  | 146,840                     | 121,170                        | 59,420                       | 230.3                 | 0  | 327,430            |
| 204        | 426.8                                    | 258.4                         | 752.0                         | 782.5                          | 0   | 1  | 330                           | 4  | 13                                       | 27                                       | 69   | 0   | 1   | 0                                 | 387,150  | 146,840                     | 121,170                        | 59,420                       | 233.1                 | 0  | 327,430            |
| 205        | 413.2                                    | 242.1                         | 751.1                         | 784.9                          | 0   | 1  | 324                           | 3  | 12                                       | 25                                       | 61   | 0   | 1   | 0                                 | 383,770  | 146,840                     | 121,170                        | 59,420                       | 233.4                 | 0  | 327,430            |
| 206<br>207 | 434.9<br>469.3                           | 239.0<br>246.2                | 757.0<br>739.4                | 791.1<br>778.5                 | 0   | 1  | 334<br>327                    | 3 4                                      | 12<br>17                                 | 25<br>27                                 | 61<br>77                                     | 0   | 1   | 0                                 | 383,490<br>364,200                               | 146,840<br>146,840          | 121,170<br>121,170             | 59,420<br>59,420             | 226.7<br>229.3        | 0  | 327,430<br>327,430 |
| 207        | 488.3                                    | 246.2                         | 739.4                         | 778.5                          | 0   | 1  | 331                           | 0  | 21                                       | 24                                       | 66   | 0   | 1   | 1                                 | 397,640  | 136,020                     | 118,790                        | 59,420                       | 252.5                 | 0  | 314,230            |
| 209        | 461.6                                    | 244.8                         | 764.4                         | 732.0                          | 0   | 2  | 326                           | 2  | 15                                       | 20                                       | 58   | 0   | 1   | 1                                 | 398,800  | 160,020                     | 101,690                        | 59,420                       | 260.8                 | 0  | 321,130            |
| 210        | 483.2                                    | 255.2                         | 739.7                         | 765.4                          | 0   | 2  | 324                           | 0  | 15                                       | 18                                       | 48   | 0   | 0   | 1                                 | 423,450  | 141,630                     | 102,250                        | 65,870                       | 275.5                 | 0  | 309,750            |
| 211        | 654.6                                    | 380.5                         | 560.4                         | 831.0                          | 0   | 2  | 338                           | 2  | 14                                       | 24                                       | 60   | 0   | 1   | 2                                 | 351,000  | 113,060                     | 134,390                        | 70,030                       | 220.8                 | 0  | 317,480            |
| 212        | 638.2                                    | 364.1<br>347.8                | 592.0                         | 851.2<br>853.6                 | 0   | 2  | 346                           | 2  | 13                                       | 25                                       | 59   | 0   | 0   | 2                                 | 355,460  | 113,060<br>113,060          | 134,390                        | 70,030                       | 223.6<br>223.9        | 0  | 317,480            |
| 213<br>214 | 624.6<br>646.2                           | 347.8                         | 591.1<br>597.0                | 853.6<br>859.8                 | 0   | 2  | 340<br>350                    | 1  | 12<br>12                                 | 23<br>23                                 | 51<br>51                                     | 0   | 0   | 2                                 | 352,080<br>351,800                               | 113,060                     | 134,390<br>134,390             | 70,030<br>70,030             | 217.2                 | 0  | 317,480<br>317,480 |
| 215        | 680.7                                    | 351.9                         | 579.4                         | 847.2                          | 0   | 2  | 343                           | 2  | 17                                       | 25                                       | 67   | 1   | 0   | 2                                 | 332,510  | 113,060                     | 134,390                        | 70,030                       | 219.7                 | 0  | 317,480            |
| 216        | 391.6                                    | 248.7                         | 669.7                         | 771.6                          | 0   | 1  | 318                           | 5  | 15                                       | 27                                       | 77   | 0   | 1   | 2                                 | 395,540  | 139,940                     | 118,060                        | 56,600                       | 223.1                 | 0  | 314,600            |
| 217        | 375.3                                    | 232.4                         | 701.4                         | 791.7                          | 0   | 1  | 326                           | 5  | 14                                       | 28                                       | 76   | 0   | 0   | 2                                 | 400,000  | 139,940                     | 118,060                        | 56,600                       | 225.9                 | 0  | 314,600            |
| 218        | 361.8                                    | 216.1                         | 700.5                         | 794.1                          | 0   | 1  | 320                           | 4  | 13                                       | 26                                       | 68   | 0   | 0   | 2                                 | 396,620  | 139,940                     | 118,060                        | 56,600                       | 226.2                 | 0  | 314,600            |
| 219<br>220 | 383.4<br>417.9                           | 213.0                         | 706.3<br>688.8                | 800.3<br>787.7                 | 0   | 1  | 330<br>323                    | 5  | 13<br>18                                 | 26<br>28                                 | 68<br>84                                     | 0   | 0   | 2                                 | 396,350<br>377,050                               | 139,940<br>139,940          | 118,060<br>118,060             | 56,600<br>56,600             | 219.5<br>222.1        | 0  | 314,600<br>314,600 |
| 221        | 436.8                                    | 218.3                         | 725.0                         | 731.7                          | 0   | 1  | 323                           | 1  | 22                                       | 25                                       | 73   | 0   | 0   | 3                                 | 410,490  | 129,120                     | 115,680                        | 56,600                       | 245.4                 | 0  | 301,400            |
| 222        | 440.5                                    | 273.4                         | 718.2                         | 755.8                          | 0   | 1  | 320                           | 4  | 14                                       | 26                                       | 70   | 0   | 2   | 0                                 | 384,080  | 146,840                     | 121,170                        | 56,600                       | 230.3                 | 0  | 324,610            |
| 223        | 424.2                                    | 257.1                         | 749.8                         | 776.0                          | 0   | 1  | 328                           | 4  | 13                                       | 27                                       | 69   | 0   | 1   | 0                                 | 388,540  | 146,840                     | 121,170                        | 56,600                       | 233.1                 | 0  | 324,610            |
| 224        | 410.7                                    | 240.8                         | 748.9                         | 778.4                          | 0   | 1  | 322                           | 3  | 12                                       | 25                                       | 61   | 0   | 1   | 0                                 | 385,160  | 146,840                     | 121,170                        | 56,600                       | 233.4                 | 0  | 324,610            |
| 225        | 432.3<br>466.8                           | 237.7                         | 754.8                         | 784.5                          | 0   | 1  | 332                           | 3  | 12<br>17                                 | 25<br>27                                 | 61<br>77                                     | 0   | 1   | 0                                 | 384,890  | 146,840<br>146,840          | 121,170<br>121,170             | 56,600                       | 226.7<br>229.3        | 0  | 324,610<br>324,610 |
| 226<br>227 | 485.7                                    | 244.9<br>243.0                | 737.2<br>773.5                | 772.0<br>716.0                 | 0   | 1  | 325<br>329                    | 0  | 21                                       | 24                                       | 66   | 0   | 1   | 1                                 | 365,590<br>399,030                               | 136,020                     | 118,790                        | 56,600<br>56,600             | 252.5                 | 0  | 311,410            |
| 228        | 459.0                                    | 243.5                         | 762.2                         | 725.5                          | 0   | 2  | 324                           | 2  | 15                                       | 20                                       | 58   | 0   | 1   | 1                                 | 400,190  | 160,020                     | 101,690                        | 56,600                       | 260.8                 | 0  | 318,310            |
| 229        | 480.6                                    | 253.9                         | 737.5                         | 758.8                          | 0   | 2  | 322                           | 0  | 15                                       | 18                                       | 48   | 0   | 0   | 1                                 | 424,840  | 141,630                     | 102,250                        | 63,060                       | 275.5                 | 0  | 306,940            |
| 230        | 459.3                                    | 243.6                         | 721.5                         | 703.0                          | 0   | 2  | 311                           | 0  | 15                                       | 17                                       | 47   | 0   | 0   | 1                                 | 431,480  | 149,230                     | 83,200                         | 66,980                       | 276.9                 | 0  | 299,410            |
| 231        | 658.5                                    | 383.8                         | 551.0                         | 828.6                          | 0   | 2  | 329                           | 2  | 13                                       | 20                                       | 54   | 0   | 1   | 3                                 | 361,800  | 118,990                     | 127,000                        | 56,210                       | 221.0                 | 0  | 302,200            |
| 232        | 642.2<br>628.6                           | 367.5<br>351.2                | 582.6<br>581.7                | 848.7<br>851.1                 | 0   | 2 2  | 337<br>331                    | 2  | 12<br>11                                 | 21<br>19                                 | 53<br>45                                     | 0   | 0   | 3                                 | 366,260<br>362,880                               | 118,990<br>118,990          | 127,000<br>127,000             | 56,210<br>56,210             | 223.8<br>224.1        | 0  | 302,200<br>302,200 |
| 234        | 650.2                                    | 348.1                         | 587.6                         | 857.3                          | 0   | 2  | 341                           | 1  | 11                                       | 19                                       | 45   | 0   | 0   | 3                                 | 362,600  | 118,990                     | 127,000                        | 56,210                       | 217.4                 | 0  | 302,200            |
| 235        | 684.7                                    | 355.3                         | 570.1                         | 844.7                          | 0   | 2  | 334                           | 2  | 16                                       | 21                                       | 61   | 1   | 0   | 3                                 | 343,300  | 118,990                     | 127,000                        | 56,210                       | 220.0                 | 0  | 302,200            |
| 236        | 395.7                                    | 252.1                         | 660.4                         | 769.1                          | 0   | 1  | 309                           | 5  | 14                                       | 23                                       | 71   | 0   | 1   | 3                                 | 406,340  | 145,880                     | 110,670                        | 42,780                       | 223.4                 | 0  | 299,330            |
| 237        | 379.3                                    | 235.7                         | 692.0                         | 789.2                          | 0   | 1  | 317                           | 5  | 13                                       | 24                                       | 70   | 0   | 0   | 3                                 | 410,800  | 145,880                     | 110,670                        | 42,780                       | 226.1                 | 0  | 299,330            |
| 238<br>239 | 365.8<br>387.4                           | 219.5<br>216.4                | 691.1<br>697.0                | 791.6<br>797.8                 | 0   | 1  | 311<br>321                    | 4  | 12<br>12                                 | 22<br>22                                 | 62<br>62                                     | 0   | 0   | 3                                 | 407,420<br>407,150                               | 145,880<br>145,880          | 110,670<br>110,670             | 42,780<br>42,780             | 226.4<br>219.7        | 0  | 299,330<br>299,330 |
| 240        | 421.9                                    | 223.6                         | 679.4                         | 785.2                          | 0   | 1  | 314                           | 5  | 17                                       | 24                                       | 78   | 1   | 0   | 3                                 | 387,850  | 145,880                     | 110,670                        | 42,780                       | 219.7                 | 0  | 299,330            |
| 241        | 440.7                                    | 221.6                         | 715.6                         | 729.2                          | 0   | 1  | 318                           | 1  | 21                                       | 21                                       | 67   | 0   | 0   | 4                                 | 421,290  | 135,050                     | 108,290                        | 42,780                       | 245.6                 | 0  | 286,120            |
| 242        | 444.6                                    | 276.8                         | 708.8                         | 753.3                          | 0   | 1  | 311                           | 4  | 13                                       | 22                                       | 64   | 0   | 2   | 1                                 | 394,880  | 152,780                     | 113,780                        | 42,780                       | 230.5                 | 0  | 309,340            |
| 243        | 428.2                                    | 260.4                         | 740.4                         | 773.5                          | 0   | 1  | 319                           | 4  | 12                                       | 23                                       | 63   | 0   | 1   | 1                                 | 399,340  | 152,780                     | 113,780                        | 42,780                       | 233.3                 | 0  | 309,340            |
| 244        | 414.7<br>436.3                           | 244.2                         | 739.5<br>745.4                | 775.9                          | 0   | 1  | 313<br>323                    | 3  | 11                                       | 21                                       | 55   | 0   | 1   | 1                                 | 395,960<br>395,680                               | 152,780<br>152,780          | 113,780<br>113,780             | 42,780                       | 233.6<br>226.9        | 0  | 309,340<br>309,340 |
| 245<br>246 | 436.3<br>470.8                           | 241.1                         | 745.4                         | 782.1<br>769.5                 | 0   | 1  | 323                           | 3 4                                      | 11<br>16                                 | 21 23                                    | 55<br>71                                     | 0 1   | 1   | 1 1                               | 395,680  | 152,780                     | 113,780                        | 42,780<br>42,780             | 226.9                 | 0  | 309,340            |
| 247        | 489.6                                    | 246.3                         | 764.1                         | 713.5                          | 0   | 1  | 320                           | 0  | 20                                       | 20                                       | 60   | 0   | 1   | 2                                 | 409,830  | 141,950                     | 111,400                        | 42,780                       | 252.8                 | 0  | 296,130            |
| 248        | 462.9                                    | 246.8                         | 752.8                         | 723.0                          | 0   | 2  | 315                           | 2  | 14                                       | 16                                       | 52   | 0   | 1   | 2                                 | 410,990  | 165,950                     | 94,310                         | 42,780                       | 261.0                 | 0  | 303,040            |
| 249        | 484.6                                    | 257.3                         | 728.2                         | 756.3                          | 0   | 2  | 313                           | 0  | 14                                       | 14                                       | 42   | 0   | 0   | 2                                 | 435,640  | 147,560                     | 94,860                         | 49,240                       | 275.7                 | 0  | 291,660            |
| 250        | 589.5                                    | 348.8                         | 509.5                         | 855.2                          | 0   | 2  | 318                           | 2  | 12                                       | 20                                       | 52   | 0   | 1   | 2                                 | 394,930  | 122,540                     | 115,230                        | 68,900                       | 202.4                 | 0  | 306,670            |
| 251<br>252 | 573.1<br>559.6                           | 332.4<br>316.2                | 541.1<br>540.2                | 875.3<br>877.8                 | 0   | 2 2  | 326<br>320                    | 2  | 11<br>10                                 | 21<br>19                                 | 51<br>43                                     | 0   | 0   | 2                                 | 399,390<br>396,010                               | 122,540<br>122,540          | 115,230<br>115,230             | 68,900<br>68,900             | 205.2<br>205.5        | 0  | 306,670<br>306,670 |
| 252        | JJJ.0                                    | 510.2                         | 540.2                         | ٥//.٥                          | U   | l <sup>2</sup>                                   | 320                           | 1  | 1 10                                     | 1 19                                     | 43   | U   | U   |                                   | 230,010  | 122,540                     | 113,230                        | 00,900                       | 205.5                 | ı  | ט/ס,סטכן           |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 253        | 581.2                                    | 313.1                         | 546.1                         | 883.9                          | 0   | 2  | 330                           | 1  | 10                                       | 19                                       | 43   | 0   | 0   | 2                                 | 395,740  | 122,540                     | 115,230                        | 68,900                       | 198.8                 | 0  | 306,670            |
| 254<br>255 | 615.7<br>326.7                           | 320.3<br>217.1                | 528.5<br>618.8                | 871.4<br>795.7                 | 0   | 2  | 323<br>298                    | <u>2</u><br>5                            | 15<br>13                                 | 21                                       | 59<br>69                                     | 0   | 0   | 2 2                               | 376,440<br>439,480                               | 122,530<br>149,420          | 115,230<br>98,890              | 68,900<br>55,470             | 201.3<br>204.7        | 0  | 306,660<br>303,780 |
| 256        | 310.3                                    | 200.7                         | 650.5                         | 815.9                          | 0   | 1  | 306                           | 5  | 12                                       | 24                                       | 68   | 0   | 0   | 2                                 | 443,940  | 149,420                     | 98,890                         | 55,470                       | 204.7                 | 0  | 303,780            |
| 257        | 296.7                                    | 184.4                         | 649.6                         | 818.3                          | 0   | 1  | 300                           | 4  | 11                                       | 22                                       | 60   | 0   | 0   | 2                                 | 440,560  | 149,420                     | 98,890                         | 55,470                       | 207.8                 | 0  | 303,780            |
| 258        | 318.3                                    | 181.3                         | 655.4                         | 824.4                          | 0   | 1  | 310                           | 4  | 11                                       | 22                                       | 60   | 0   | 0   | 2                                 | 440,280  | 149,420                     | 98,890                         | 55,470                       | 201.1                 | 0  | 303,780            |
| 259        | 352.9                                    | 188.6                         | 637.9                         | 811.9                          | 0   | 1  | 303                           | 5  | 16                                       | 24                                       | 76   | 1   | 0   | 2                                 | 420,980  | 149,410                     | 98,890                         | 55,470                       | 203.7                 | 0  | 303,770            |
| 260<br>261 | 371.7<br>375.6                           | 186.6<br>241.8                | 674.1<br>667.3                | 755.9<br>780.0                 | 0   | 1  | 307<br>300                    | 4  | 20<br>12                                 | 21                                       | 65<br>62                                     | 0   | 2   | 3                                 | 454,420<br>428,010                               | 138,590<br>156,320          | 96,510<br>102,000              | 55,470<br>55,470             | 226.9<br>211.9        | 0  | 290,570<br>313,790 |
| 262        | 359.2                                    | 225.4                         | 698.9                         | 800.1                          | 0   | 1  | 308                           | 4  | 11                                       | 23                                       | 61   | 0   | 1   | 0                                 | 432,470  | 156,320                     | 102,000                        | 55,470                       | 211.9                 | 0  | 313,790            |
| 263        | 345.6                                    | 209.1                         | 698.0                         | 802.5                          | 0   | 1  | 302                           | 3  | 10                                       | 21                                       | 53   | 0   | 1   | 0                                 | 429,090  | 156,320                     | 102,000                        | 55,470                       | 215.0                 | 0  | 313,790            |
| 264        | 367.2                                    | 206.0                         | 703.9                         | 808.7                          | 0   | 1  | 312                           | 3  | 10                                       | 21                                       | 53   | 0   | 1   | 0                                 | 428,820  | 156,320                     | 102,000                        | 55,470                       | 208.3                 | 0  | 313,790            |
| 265        | 401.8                                    | 213.3                         | 686.3                         | 796.1                          | 0   | 1  | 305                           | 4  | 15                                       | 23                                       | 69   | 1   | 1   | 0                                 | 409,520  | 156,310                     | 102,000                        | 55,470                       | 210.9                 | 0  | 313,780            |
| 266<br>267 | 420.6<br>393.9                           | 211.3<br>211.8                | 722.6<br>711.3                | 740.1<br>749.6                 | 0   | 2  | 309<br>304                    | 0 2                                      | 19<br>13                                 | 20<br>16                                 | 58<br>50                                     | 0   | 1   | 1 1                               | 442,960<br>444,120                               | 145,490<br>169,490          | 99,620<br>82,530               | 55,470<br>55,470             | 234.1<br>242.4        | 0  | 300,580<br>307,490 |
| 268        | 415.5                                    | 222.2                         | 686.6                         | 783.0                          | 0   | 2  | 302                           | 0  | 13                                       | 14                                       | 40   | 0   | 0   | 1                                 | 468,770  | 151,100                     | 83,090                         | 61,930                       | 257.1                 | 0  | 296,120            |
| 269        | 586.9                                    | 347.5                         | 507.3                         | 848.7                          | 0   | 2  | 316                           | 2  | 12                                       | 20                                       | 52   | 0   | 1   | 2                                 | 396,320  | 122,540                     | 115,230                        | 66,090                       | 202.4                 | 0  | 303,860            |
| 270        | 570.6                                    | 331.2                         | 538.9                         | 868.8                          | 0   | 2  | 324                           | 2  | 11                                       | 21                                       | 51   | 0   | 0   | 2                                 | 400,780  | 122,540                     | 115,230                        | 66,090                       | 205.2                 | 0  | 303,860            |
| 271        | 557.0                                    | 314.9                         | 538.0                         | 871.2                          | 0   | 2  | 318                           | 1  | 10                                       | 19                                       | 43   | 0   | 0   | 2                                 | 397,400  | 122,540                     | 115,230                        | 66,090                       | 205.5                 | 0  | 303,860            |
| 272<br>273 | 578.6<br>613.1                           | 311.8<br>319.0                | 543.9<br>526.3                | 877.4<br>864.8                 | 0   | 2 2  | 328<br>321                    | 2  | 10<br>15                                 | 19<br>21                                 | 43<br>59                                     | 0 1   | 0   | 2 2                               | 397,130<br>377,830                               | 122,540<br>122,530          | 115,230<br>115,230             | 66,090<br>66,090             | 198.8<br>201.3        | 0  | 303,860<br>303,850 |
| 274        | 324.1                                    | 215.8                         | 616.6                         | 789.2                          | 0   | 1  | 296                           | 5  | 13                                       | 23                                       | 69   | 0   | 1   | 2                                 | 440,870  | 149,420                     | 98,890                         | 52,660                       | 204.7                 | 0  | 300,970            |
| 275        | 307.7                                    | 199.4                         | 648.3                         | 809.3                          | 0   | 1  | 304                           | 5  | 12                                       | 24                                       | 68   | 0   | 0   | 2                                 | 445,330  | 149,420                     | 98,890                         | 52,660                       | 207.5                 | 0  | 300,970            |
| 276        | 294.2                                    | 183.2                         | 647.4                         | 811.7                          | 0   | 1  | 298                           | 4  | 11                                       | 22                                       | 60   | 0   | 0   | 2                                 | 441,950  | 149,420                     | 98,890                         | 52,660                       | 207.8                 | 0  | 300,970            |
| 277        | 315.7                                    | 180.0                         | 653.2                         | 817.9                          | 0   | 1  | 308                           | 4  | 11                                       | 22                                       | 60   | 0   | 0   | 2                                 | 441,670  | 149,420                     | 98,890                         | 52,660                       | 201.1                 | 0  | 300,970            |
| 278<br>279 | 350.3<br>369.1                           | 187.3<br>185.3                | 635.7<br>671.9                | 805.3<br>749.3                 | 0   | 1  | 301<br>305                    | 5<br>1                                   | 16<br>20                                 | 24                                       | 76<br>65                                     | 0   | 0   | 3                                 | 422,370<br>455,820                               | 149,410<br>138,590          | 98,890<br>96,510               | 52,660<br>52,660             | 203.7<br>226.9        | 0  | 300,960<br>287,760 |
| 280        | 373.0                                    | 240.5                         | 665.1                         | 773.4                          | 0   | 1  | 298                           | 4  | 12                                       | 22                                       | 62   | 0   | 2   | 0                                 | 429,400  | 156,320                     | 102,000                        | 52,660                       | 211.9                 | 0  | 310,980            |
| 281        | 356.6                                    | 224.1                         | 696.7                         | 793.6                          | 0   | 1  | 306                           | 4  | 11                                       | 23                                       | 61   | 0   | 1   | 0                                 | 433,860  | 156,320                     | 102,000                        | 52,660                       | 214.7                 | 0  | 310,980            |
| 282        | 343.1                                    | 207.9                         | 695.8                         | 796.0                          | 0   | 1  | 300                           | 3  | 10                                       | 21                                       | 53   | 0   | 1   | 0                                 | 430,480  | 156,320                     | 102,000                        | 52,660                       | 215.0                 | 0  | 310,980            |
| 283        | 364.6                                    | 204.7                         | 701.7                         | 802.2                          | 0   | 1  | 310                           | 3  | 10                                       | 21                                       | 53   | 0   | 1   | 0                                 | 430,210  | 156,320                     | 102,000                        | 52,660                       | 208.3                 | 0  | 310,980            |
| 284<br>285 | 399.2<br>418.0                           | 212.0<br>210.0                | 684.1<br>720.4                | 789.6<br>733.6                 | 0   | 1  | 303<br>307                    | 0  | 15<br>19                                 | 23                                       | 69<br>58                                     | 0   | 1   | 0                                 | 410,910<br>444,350                               | 156,310<br>145,490          | 102,000<br>99,620              | 52,660<br>52,660             | 210.9<br>234.1        | 0  | 310,970<br>297,770 |
| 286        | 391.3                                    | 210.5                         | 709.1                         | 743.1                          | 0   | 2  | 302                           | 2  | 13                                       | 16                                       | 50   | 0   | 1   | 1                                 | 445,510  | 169,490                     | 82,530                         | 52,660                       | 242.4                 | 0  | 304,680            |
| 287        | 413.0                                    | 220.9                         | 684.4                         | 776.4                          | 0   | 2  | 300                           | 0  | 13                                       | 14                                       | 40   | 0   | 0   | 1                                 | 470,160  | 151,100                     | 83,090                         | 59,120                       | 257.1                 | 0  | 293,310            |
| 288        | 635.3                                    | 391.6                         | 511.8                         | 854.8                          | 0   | 2  | 343                           | 2  | 11                                       | 24                                       | 54   | 0   | 1   | 2                                 | 363,960  | 117,380                     | 133,840                        | 72,840                       | 208.9                 | 0  | 324,060            |
| 289        | 619.0                                    | 375.3                         | 543.4                         | 875.0                          | 0   | 2  | 351                           | 2  | 10                                       | 25                                       | 53   | 0   | 0   | 2                                 | 368,420  | 117,380                     | 133,840                        | 72,840                       | 211.7                 | 0  | 324,060            |
| 290<br>291 | 605.4<br>627.0                           | 359.0<br>355.9                | 542.5<br>548.4                | 877.4<br>883.6                 | 0   | 2  | 345<br>355                    | 1  | 9  | 23<br>23                                 | 45<br>45                                     | 0   | 0   | 2 2                               | 365,040<br>364,760                               | 117,380<br>117,380          | 133,840<br>133,840             | 72,840<br>72,840             | 212.0<br>205.3        | 0  | 324,060<br>324,060 |
| 292        | 661.5                                    | 363.1                         | 530.8                         | 871.0                          | 0   | 2  | 348                           | 2  | 14                                       | 25                                       | 61   | 1   | 0   | 2                                 | 345,470  | 117,370                     | 133,840                        | 72,840                       | 207.9                 | 0  | 324,050            |
| 293        | 372.4                                    | 259.9                         | 621.1                         | 795.3                          | 0   | 1  | 323                           | 5  | 12                                       | 27                                       | 71   | 0   | 1   | 2                                 | 408,500  | 144,260                     | 117,510                        | 59,420                       | 211.2                 | 0  | 321,190            |
| 294        | 356.1                                    | 243.6                         | 652.7                         | 815.5                          | 0   | 1  | 331                           | 5  | 11                                       | 28                                       | 70   | 0   | 0   | 2                                 | 412,960  | 144,260                     | 117,510                        | 59,420                       | 214.0                 | 0  | 321,190            |
| 295        | 342.5                                    | 227.3                         | 651.8                         | 817.9                          | 0   | 1  | 325                           | 4  | 10                                       | 26                                       | 62   | 0   | 0   | 2                                 | 409,580  | 144,260                     | 117,510                        | 59,420                       | 214.3                 | 0  | 321,190            |
| 296<br>297 | 364.2<br>398.6                           | 224.2                         | 657.7<br>640.1                | 824.1<br>811.5                 | 0   | 1  | 335<br>328                    | 4<br>5                                   | 10<br>15                                 | 26<br>28                                 | 62<br>78                                     | 0 1   | 0   | 2 2                               | 409,310<br>390,010                               | 144,260<br>144,250          | 117,510<br>117,510             | 59,420<br>59,420             | 207.6<br>210.2        | 0  | 321,190<br>321,180 |
| 298        | 417.5                                    | 229.4                         | 676.4                         | 755.5                          | 0   | 1  | 332                           | 1  | 19                                       | 25                                       | 67   | 0   | 0   | 3                                 | 423,450  | 133,440                     | 115,130                        | 59,420                       | 233.5                 | 0  | 307,990            |
| 299        | 421.3                                    | 284.6                         | 669.6                         | 779.6                          | 0   | 1  | 325                           | 4  | 11                                       | 26                                       | 64   | 0   | 2   | 0                                 | 397,040  | 151,160                     | 120,620                        | 59,420                       | 218.4                 | 0  | 331,200            |
| 300        | 405.0                                    | 268.3                         | 701.2                         | 799.7                          | 0   | 1  | 333                           | 4  | 10                                       | 27                                       | 63   | 0   | 1   | 0                                 | 401,500  | 151,160                     | 120,620                        | 59,420                       | 221.2                 | 0  | 331,200            |
| 301        | 391.4<br>413.1                           | 252.0<br>248.9                | 700.3<br>706.2                | 802.1<br>808.3                 | 0   | 1  | 327<br>337                    | 3  | 9  | 25<br>25                                 | 55<br>55                                     | 0   | 1   | 0                                 | 398,120<br>397,840                               | 151,160<br>151,160          | 120,620<br>120,620             | 59,420<br>59,420             | 221.5<br>214.8        | 0  | 331,200<br>331,200 |
| 302<br>303 | 413.1                                    | 248.9                         | 688.6                         | 795.8                          | 0   | 1  | 337                           | 4  | 14                                       | 25                                       | 71   | 1   | 1   | 0                                 | 397,840  | 151,150                     | 120,620                        | 59,420                       | 214.8                 | 0  | 331,200            |
| 304        | 466.4                                    | 254.1                         | 724.8                         | 739.8                          | 0   | 1  | 334                           | 0  | 18                                       | 24                                       | 60   | 0   | 1   | 1                                 | 411,990  | 140,340                     | 118,240                        | 59,420                       | 240.7                 | 0  | 318,000            |
| 305        | 439.8                                    | 254.7                         | 713.5                         | 749.3                          | 0   | 2  | 329                           | 2  | 12                                       | 20                                       | 52   | 0   | 1   | 1                                 | 413,150  | 164,330                     | 101,150                        | 59,420                       | 248.9                 | 0  | 324,900            |
| 306        | 461.4                                    | 265.1                         | 688.9                         | 782.6                          | 0   | 2  | 327                           | 0  | 12                                       | 18                                       | 42   | 0   | 0   | 1                                 | 437,800  | 145,940                     | 101,700                        | 65,870                       | 263.6                 | 0  | 313,510            |
| 307<br>308 | 632.8<br>616.4                           | 390.4<br>374.0                | 509.6<br>541.2                | 848.3<br>868.4                 | 0   | 2 2  | 341<br>349                    | 2  | 11<br>10                                 | 24<br>25                                 | 54<br>53                                     | 0   | 0   | 2 2                               | 365,350<br>369,810                               | 117,380<br>117,380          | 133,840<br>133,840             | 70,030<br>70,030             | 208.9<br>211.7        | 0  | 321,250<br>321,250 |
| 308        | 602.8                                    | 357.7                         | 541.2                         | 870.8                          | 0   | 2  | 349                           | 1  | 9  | 23                                       | 45   | 0   | 0   | 2                                 | 366,430  | 117,380                     | 133,840                        | 70,030                       | 211.7                 | 0  | 321,250            |
| 310        | 624.4                                    | 354.6                         | 546.2                         | 877.0                          | 0   | 2  | 353                           | 1  | 9  | 23                                       | 45   | 0   | 0   | 2                                 | 366,160  | 117,380                     | 133,840                        | 70,030                       | 205.3                 | 0  | 321,250            |
| 311        | 658.9                                    | 361.8                         | 528.6                         | 864.4                          | 0   | 2  | 346                           | 2  | 14                                       | 25                                       | 61   | 1   | 0   | 2                                 | 346,860  | 117,370                     | 133,840                        | 70,030                       | 207.9                 | 0  | 321,240            |
| 312        | 369.8                                    | 258.6                         | 618.9                         | 788.8                          | 0   | 1  | 321                           | 5  | 12                                       | 27                                       | 71   | 0   | 1   | 2                                 | 409,900  | 144,260                     | 117,510                        | 56,600                       | 211.2                 | 0  | 318,370            |
| 313<br>314 | 353.5<br>340.0                           | 242.3<br>226.0                | 650.5<br>649.6                | 808.9<br>811.4                 | 0   | 1  | 329<br>323                    | 5<br>4                                   | 11<br>10                                 | 28<br>26                                 | 70<br>62                                     | 0   | 0   | 2 2                               | 414,360<br>410,970                               | 144,260<br>144,260          | 117,510<br>117,510             | 56,600<br>56,600             | 214.0<br>214.3        | 0  | 318,370<br>318,370 |
| 314        | 340.0<br>361.6                           | 226.0                         | 655.5                         | 811.4<br>817.5                 | 0   | 1  | 323                           | 4  | 10                                       | 26                                       | 62   | 0   | 0   | 2                                 | 410,970  | 144,260                     | 117,510                        |                              | 207.6                 | 0  | 318,370            |

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|              | Sensitive<br>Species<br>Score | Woodland in      | ROW              | ROW              | NRHP Sites<br>within 1/4<br>Mile | Archaeological<br>Sites within<br>ROW | Parcels<br>Crossed |              | Residences<br>within 300 feet | Residences<br>within 500 feet | Residential<br>Proximity<br>Score | Businesses<br>within 300<br>feet | Public<br>Facilities<br>within<br>500 feet | Outbuildings<br>in ROW | Length Not<br>Along Parcel<br>Boundary | Risk               | Karst Risk         | High Karst<br>Risk | Floodplain       | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat | Total<br>Length<br>Karst |
|--------------|-------------------------------|------------------|------------------|------------------|----------------------------------|---------------------------------------|--------------------|--------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|--|------------------------|--|--------------------|--------------------|--------------------|------------------|---|--------------------------|
| Route<br>316 | (score)<br>396.1              | (acres)<br>230.1 | (acres)<br>637.9 | (acres)<br>805.0 | (count)                          | (count)                               | (count)<br>326     | (count)<br>5 | (count)<br>15                 | (count)<br>28                 | (score)<br>78                     | (count)                          | (count)                                    | (count)                | (feet)<br>391,400                      | (feet)<br>144,250  | (feet)<br>117,510  | (feet)<br>56,600   | (acres)<br>210.2 | (count)<br>0  | (feet)<br>318,360        |
| 317          | 415.0                         | 228.2            | 674.2            | 749.0            | 0                                | 1                                     | 330                | 1            | 19                            | 25                            | 67                                | 0                                | 0  | 3                      | 424,840                                | 133,440            | 115,130            | 56,600             | 233.5            | 0   | 305,170                  |
| 318          | 418.7                         | 283.3            | 667.4            | 773.1            | 0                                | 1                                     | 323                | 4            | 11                            | 26                            | 64                                | 0                                | 2  | 0                      | 398,430                                | 151,160            | 120,620            | 56,600             | 218.4            | 0   | 328,380                  |
| 319<br>320   | 402.4<br>388.9                | 267.0<br>250.7   | 699.0<br>698.1   | 793.2<br>795.6   | 0                                | 1                                     | 331<br>325         | 3            | 10<br>9                       | 27<br>25                      | 63<br>55                          | 0                                | 1  | 0                      | 402,890                                | 151,160<br>151,160 | 120,620<br>120,620 | 56,600<br>56,600   | 221.2<br>221.5   | 0   | 328,380<br>328,380       |
| 321          | 410.5                         | 247.6            | 704.0            | 801.8            | 0                                | 1                                     | 335                | 3            | 9                             | 25                            | 55                                | 0                                | 1  | 0                      | 399,510<br>399,240                     | 151,160            | 120,620            | 56,600             | 214.8            | 0   | 328,380                  |
| 322          | 445.0                         | 254.8            | 686.4            | 789.2            | 0                                | 1                                     | 328                | 4            | 14                            | 27                            | 71                                | 1                                | 1  | 0                      | 379,940                                | 151,150            | 120,620            | 56,600             | 217.4            | 0   | 328,370                  |
| 323          | 463.9                         | 252.9            | 722.6            | 733.2            | 0                                | 1                                     | 332                | 0            | 18                            | 24                            | 60                                | 0                                | 1  | 1                      | 413,380                                | 140,340            | 118,240            | 56,600             | 240.7            | 0   | 315,180                  |
| 324<br>325   | 437.2<br>458.8                | 253.4<br>263.8   | 711.3<br>686.7   | 742.7<br>776.1   | 0                                | 2 2                                   | 327<br>325         | 0            | 12<br>12                      | 20<br>18                      | 52<br>42                          | 0                                | 0  | 1                      | 414,540<br>439,190                     | 164,330<br>145,940 | 101,150<br>101,700 | 56,600<br>63,060   | 248.9<br>263.6   | 0   | 322,080<br>310,700       |
| 326          | 437.5                         | 253.5            | 670.7            | 720.3            | 0                                | 2                                     | 314                | 0            | 12                            | 17                            | 41                                | 0                                | 0  | 1                      | 445,830                                | 153,550            | 82,650             | 66,980             | 265.1            | 0   | 303,180                  |
| 327          | 654.0                         | 381.7            | 576.1            | 827.9            | 0                                | 2                                     | 328                | 2            | 11                            | 18                            | 48                                | 0                                | 1  | 3                      | 363,920                                | 113,400            | 137,690            | 56,260             | 219.9            | 0   | 307,350                  |
| 328<br>329   | 637.7<br>624.1                | 365.4<br>349.1   | 607.8<br>606.9   | 848.0<br>850.4   | 0                                | 2 2                                   | 336<br>330         | 2            | 10<br>9                       | 19<br>17                      | 47<br>39                          | 0                                | 0  | 3                      | 368,380<br>365,000                     | 113,400<br>113,400 | 137,690<br>137,690 | 56,260<br>56,260   | 222.7<br>223.0   | 0   | 307,350<br>307,350       |
| 330          | 645.7                         | 346.0            | 612.8            | 856.6            | 0                                | 2                                     | 340                | 1            | 9                             | 17                            | 39                                | 0                                | 0  | 3                      | 364,720                                | 113,400            | 137,690            | 56,260             | 216.3            | 0   | 307,350                  |
| 331          | 680.2                         | 353.2            | 595.2            | 844.0            | 0                                | 2                                     | 333                | 2            | 14                            | 19                            | 55                                | 1                                | 0  | 3                      | 345,420                                | 113,390            | 137,690            | 56,260             | 218.8            | 0   | 307,340                  |
| 332          | 391.2                         | 250.0            | 685.5            | 768.4            | 0                                | 1                                     | 308                | 5            | 12                            | 21                            | 65                                | 0                                | 1  | 3                      | 408,460                                | 140,280            | 121,350            | 42,830             | 222.2            | 0   | 304,460                  |
| 333<br>334   | 374.8<br>361.3                | 233.6<br>217.4   | 717.1<br>716.2   | 788.5<br>790.9   | 0                                | 1                                     | 316<br>310         | 5<br>4       | 11<br>10                      | 22<br>20                      | 64<br>56                          | 0                                | 0  | 3                      | 412,920<br>409,540                     | 140,280<br>140,280 | 121,350<br>121,350 | 42,830<br>42,830   | 225.0<br>225.3   | 0   | 304,460<br>304,460       |
| 335          | 382.9                         | 217.4            | 710.2            | 790.9            | 0                                | 1                                     | 320                | 4            | 10                            | 20                            | 56                                | 0                                | 0  | 3                      | 409,270                                | 140,280            | 121,350            | 42,830             | 218.6            | 0   | 304,460                  |
| 336          | 417.4                         | 221.5            | 704.5            | 784.5            | 0                                | 1                                     | 313                | 5            | 15                            | 22                            | 72                                | 1                                | 0  | 3                      | 389,970                                | 140,280            | 121,350            | 42,830             | 221.2            | 0   | 304,460                  |
| 337          | 436.2                         | 219.5            | 740.8            | 728.5            | 0                                | 1                                     | 317                | 1            | 19                            | 19                            | 61                                | 0                                | 0  | 4                      | 423,410                                | 129,460            | 118,980            | 42,830             | 244.5            | 0   | 291,270                  |
| 338<br>339   | 440.1<br>423.7                | 274.7<br>258.3   | 733.9<br>765.6   | 752.6<br>772.8   | 0                                | 1                                     | 310<br>318         | 4            | 11<br>10                      | 20<br>21                      | 58<br>57                          | 0                                | 1  | 1                      | 397,000<br>401,460                     | 147,180<br>147,180 | 124,470<br>124,470 | 42,830<br>42,830   | 229.4<br>232.2   | 0   | 314,480<br>314,480       |
| 340          | 410.2                         | 242.1            | 764.7            | 775.2            | 0                                | 1                                     | 312                | 3            | 9                             | 19                            | 49                                | 0                                | 1  | 1                      | 398,080                                | 147,180            | 124,470            | 42,830             | 232.5            | 0   | 314,480                  |
| 341          | 431.8                         | 239.0            | 770.5            | 781.4            | 0                                | 1                                     | 322                | 3            | 9                             | 19                            | 49                                | 0                                | 1  | 1                      | 397,800                                | 147,180            | 124,470            | 42,830             | 225.8            | 0   | 314,480                  |
| 342          | 466.3                         | 246.2            | 753.0            | 768.8            | 0                                | 1                                     | 315                | 4            | 14                            | 21                            | 65                                | 1                                | 1  | 1                      | 378,500                                | 147,170            | 124,470            | 42,830             | 228.4            | 0   | 314,470                  |
| 343<br>344   | 485.1<br>458.4                | 244.2<br>244.7   | 789.2<br>777.9   | 712.8<br>722.3   | 0                                | 2                                     | 319<br>314         | 0 2          | 18<br>12                      | 18<br>14                      | 54<br>46                          | 0                                | 1  | 2                      | 411,950<br>413,110                     | 136,360<br>160,350 | 122,090<br>104,990 | 42,830<br>42,830   | 251.6<br>259.9   | 0   | 301,280<br>308,170       |
| 345          | 480.1                         | 255.2            | 753.3            | 755.6            | 0                                | 2                                     | 312                | 0            | 12                            | 12                            | 36                                | 0                                | 0  | 2                      | 437,750                                | 141,970            | 105,550            | 49,290             | 274.6            | 0   | 296,810                  |
| 346          | 585.0                         | 346.7            | 534.6            | 854.5            | 0                                | 2                                     | 317                | 2            | 10                            | 18                            | 46                                | 0                                | 1  | 2                      | 397,050                                | 116,940            | 125,920            | 68,950             | 201.2            | 0   | 311,810                  |
| 347<br>348   | 568.6<br>555.1                | 330.3<br>314.1   | 566.2<br>565.3   | 874.7<br>877.1   | 0                                | 2                                     | 325<br>319         | 2            | 9                             | 19<br>17                      | 45<br>37                          | 0                                | 0  | 2                      | 401,510<br>398,130                     | 116,940<br>116,940 | 125,920<br>125,920 | 68,950<br>68,950   | 204.0<br>204.3   | 0   | 311,810<br>311,810       |
| 349          | 576.7                         | 311.0            | 571.2            | 883.2            | 0                                | 2                                     | 329                | 1            | 8                             | 17                            | 37                                | 0                                | 0  | 2                      | 397,860                                | 116,940            | 125,920            | 68,950             | 197.6            | 0   | 311,810                  |
| 350          | 611.2                         | 318.2            | 553.7            | 870.7            | 0                                | 2                                     | 322                | 2            | 13                            | 19                            | 53                                | 1                                | 0  | 2                      | 378,560                                | 116,930            | 125,920            | 68,950             | 200.2            | 0   | 311,800                  |
| 351          | 322.2                         | 215.0            | 644.0            | 795.0            | 0                                | 1                                     | 297<br>305         | 5<br>5       | 11                            | 21<br>22                      | 63<br>62                          | 0                                | 0  | 2                      | 441,600                                | 143,820            | 109,580            | 55,520             | 203.6            | 0   | 308,920                  |
| 352<br>353   | 305.8<br>292.2                | 198.6<br>182.3   | 675.6<br>674.7   | 815.2<br>817.6   | 0                                | 1                                     | 299                | 4            | 10<br>9                       | 22                            | 54                                | 0                                | 0  | 2                      | 446,060<br>442,680                     | 143,820<br>143,820 | 109,580<br>109,580 | 55,520<br>55,520   | 206.3<br>206.6   | 0   | 308,920<br>308,920       |
| 354          | 313.8                         | 179.2            | 680.6            | 823.8            | 0                                | 1                                     | 309                | 4            | 9                             | 20                            | 54                                | 0                                | 0  | 2                      | 442,400                                | 143,820            | 109,580            | 55,520             | 199.9            | 0   | 308,920                  |
| 355          | 348.4                         | 186.5            | 663.0            | 811.2            | 0                                | 1                                     | 302                | 5            | 14                            | 22                            | 70                                | 1                                | 0  | 2                      | 423,100                                | 143,820            | 109,580            | 55,520             | 202.5            | 0   | 308,920                  |
| 356<br>357   | 367.2<br>371.1                | 184.5<br>239.7   | 699.2<br>692.4   | 755.2<br>779.3   | 0                                | 1                                     | 306<br>299         | 4            | 18<br>10                      | 19<br>20                      | 59<br>56                          | 0                                | 2  | 3                      | 456,540<br>430,130                     | 133,000<br>150,720 | 107,200<br>112,690 | 55,520<br>55,520   | 225.8<br>210.7   | 0   | 295,720<br>318,930       |
| 358          | 354.7                         | 239.7            | 724.0            | 779.3            | 0                                | 1                                     | 307                | 4            | 9                             | 21                            | 55                                | 0                                | 1  | 0                      | 430,130                                | 150,720            | 112,690            | 55,520             | 210.7            | 0   | 318,930                  |
| 359          | 341.1                         | 207.0            | 723.1            | 801.8            | 0                                | 1                                     | 301                | 3            | 8                             | 19                            | 47                                | 0                                | 1  | 0                      | 431,210                                | 150,720            | 112,690            | 55,520             | 213.8            | 0   | 318,930                  |
| 360          | 362.7                         | 203.9            | 729.0            | 808.0            | 0                                | 1                                     | 311                | 3            | 8                             | 19                            | 47                                | 0                                | 1  | 0                      | 430,940                                | 150,720            | 112,690            | 55,520             | 207.1            | 0   | 318,930                  |
| 361<br>362   | 397.3<br>416.1                | 211.2<br>209.2   | 711.4<br>747.7   | 795.4<br>739.4   | 0                                | 1                                     | 304<br>308         | 0            | 13<br>17                      | 21<br>18                      | 63<br>52                          | 0                                | 1  | 0                      | 411,640<br>445,080                     | 150,720<br>139,900 | 112,690<br>110,310 | 55,520<br>55,520   | 209.7<br>233.0   | 0   | 318,930<br>305,730       |
| 363          | 389.4                         | 209.7            | 736.4            | 749.0            | 0                                | 2                                     | 303                | 2            | 11                            | 14                            | 44                                | 0                                | 1  | 1                      | 446,240                                | 163,890            | 93,220             | 55,520             | 241.2            | 0   | 312,630                  |
| 364          | 411.0                         | 220.1            | 711.7            | 782.3            | 0                                | 2                                     | 301                | 0            | 11                            | 12                            | 34                                | 0                                | 0  | 1                      | 470,890                                | 145,510            | 93,770             | 61,980             | 255.9            | 0   | 301,260                  |
| 365          | 582.4                         | 345.4            | 532.4            | 848.0            | 0                                | 2                                     | 315                | 2            | 10                            | 18                            | 46<br>4F                          | 0                                | 1  | 2                      | 398,440                                | 116,940            | 125,920            | 66,130             | 201.2            | 0   | 308,990                  |
| 366<br>367   | 566.1<br>552.5                | 329.1<br>312.8   | 564.0<br>563.1   | 868.1<br>870.5   | 0                                | 2                                     | 323<br>317         | 2            | 9 8                           | 19<br>17                      | 45<br>37                          | 0                                | 0  | 2                      | 402,900<br>399,520                     | 116,940<br>116,940 | 125,920<br>125,920 | 66,130<br>66,130   | 204.0<br>204.3   | 0   | 308,990<br>308,990       |
| 368          | 574.1                         | 309.7            | 569.0            | 876.7            | 0                                | 2                                     | 327                | 1            | 8                             | 17                            | 37                                | 0                                | 0  | 2                      | 399,250                                | 116,940            | 125,920            | 66,130             | 197.6            | 0   | 308,990                  |
| 369          | 608.6                         | 316.9            | 551.5            | 864.1            | 0                                | 2                                     | 320                | 2            | 13                            | 19                            | 53                                | 1                                | 0  | 2                      | 379,950                                | 116,930            | 125,920            | 66,130             | 200.2            | 0   | 308,980                  |
| 370<br>371   | 319.6<br>303.2                | 213.7<br>197.3   | 641.8<br>673.4   | 788.5<br>808.6   | 0                                | 1                                     | 295<br>303         | 5<br>5       | 11<br>10                      | 21<br>22                      | 63<br>62                          | 0                                | 0  | 2 2                    | 442,990<br>447,450                     | 143,820<br>143,820 | 109,580<br>109,580 | 52,710<br>52,710   | 203.6<br>206.3   | 0   | 306,110<br>306,110       |
| 371          | 289.7                         | 181.1            | 672.5            | 811.0            | 0                                | 1                                     | 297                | 4            | 9                             | 20                            | 54                                | 0                                | 0  | 2                      | 444,070                                | 143,820            | 109,580            | 52,710             | 206.3            | 0   | 306,110                  |
| 373          | 311.2                         | 177.9            | 678.4            | 817.2            | 0                                | 1                                     | 307                | 4            | 9                             | 20                            | 54                                | 0                                | 0  | 2                      | 443,790                                | 143,820            | 109,580            | 52,710             | 199.9            | 0   | 306,110                  |
| 374          | 345.8                         | 185.2            | 8.099            | 804.6            | 0                                | 1                                     | 300                | 5            | 14                            | 22                            | 70                                | 1                                | 0  | 2                      | 424,490                                | 143,820            | 109,580            | 52,710             | 202.5            | 0   | 306,110                  |
| 375<br>376   | 364.6<br>368.5                | 183.2<br>238.4   | 697.0<br>690.2   | 748.6<br>772.7   | 0                                | 1                                     | 304<br>297         | 4            | 18<br>10                      | 19<br>20                      | 59<br>56                          | 0                                | 2  | 3                      | 457,930<br>431,520                     | 133,000<br>150,720 | 107,200<br>112,690 | 52,710<br>52,710   | 225.8<br>210.7   | 0   | 292,910<br>316,120       |
| 376          | 352.1                         | 238.4            | 721.8            | 772.7            | 0                                | 1                                     | 305                | 4            | 9                             | 21                            | 55                                | 0                                | 1  | 0                      | 431,520                                | 150,720            | 112,690            | 52,710             | 210.7            | 0   | 316,120                  |
| 378          | 338.6                         | 205.8            | 720.9            | 795.3            | 0                                | 1                                     | 299                | 3            | 8                             | 19                            | 47                                | 0                                | 1  | 0                      | 432,600                                | 150,720            | 112,690            | 52,710             | 213.8            | 0   | 316,120                  |

|            | Sensitive<br>Species | Woodland in    | Cronland in    | Rangeland in     | NRHP Sites | Archaeological<br>Sites within | Parcels    | Residences      | Residences      | Residences      | Residential Proximity | Businesses<br>within 300 | Public<br>Facilities<br>within | Outbuildings | Length Not         | low Karst          | Medium             | High Karst       |                | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk |                    |
|------------|----------------------|----------------|----------------|------------------|------------|--------------------------------|------------|-----------------|-----------------|-----------------|-----------------------|--------------------------|--------------------------------|--------------|--------------------|--------------------|--------------------|------------------|----------------|--|--------------------|
|            | Score                | ROW            | ROW            | ROW              | Mile       | ROW                            | Crossed    | within 150 feet | within 300 feet | within 500 feet | Score                 | feet                     | 500 feet                       | in ROW       | Boundary           | Risk               | Karst Risk         | Risk             | Floodplain     | Habitat  | Karst              |
| Route      | (score)              | (acres)        | (acres)        | (acres)          | (count)    | (count)                        | (count)    | (count)         | (count)         | (count)         | (score)               | (count)                  | (count)                        | (count)      | (feet)             | (feet)             | (feet)             | (feet)           | (acres)        | (count)  | (feet)             |
| 379<br>380 | 360.1<br>394.7       | 202.6          | 726.8<br>709.2 | 801.5<br>788.9   | 0          | 1 1                            | 309<br>302 | 3 4             | 8<br>13         | 19<br>21        | 47<br>63              | 0                        | 1                              | 0            | 432,330<br>413,030 | 150,720<br>150,720 | 112,690<br>112,690 | 52,710<br>52,710 | 207.1<br>209.7 | 0  | 316,120<br>316,120 |
| 381        | 413.5                | 207.9          | 745.5          | 732.9            | 0          | 1                              | 306        | 0               | 17              | 18              | 52                    | 0                        | 1                              | 1            | 446,470            | 139,900            | 110,310            | 52,710           | 233.0          | 0  | 302,920            |
| 382<br>383 | 386.8<br>408.5       | 208.4          | 734.2<br>709.5 | 742.4<br>775.8   | 0          | 2 2                            | 301<br>299 | 0               | 11<br>11        | 14<br>12        | 44<br>34              | 0                        | 0                              | 1            | 447,630<br>472,280 | 163,890<br>145,510 | 93,220<br>93,770   | 52,710<br>59,170 | 241.2<br>255.9 | 0  | 309,820<br>298,450 |
| 384        | 628.6                | 387.3          | 537.9          | 847.5            | 0          | 2                              | 344        | 2               | 9               | 21              | 47                    | 0                        | 1                              | 2            | 367,520            | 111,290            | 144,290            | 71,360           | 209.2          | 0  | 326,940            |
| 385        | 612.2                | 370.9          | 569.5          | 867.7            | 0          | 2                              | 352        | 2               | 8               | 22              | 46                    | 0                        | 0                              | 2            | 371,980            | 111,290            | 144,290            | 71,360           | 212.0          | 0  | 326,940            |
| 386        | 598.6                | 354.6          | 568.6          | 870.1            | 0          | 2                              | 346        | 1               | 7               | 20              | 38                    | 0                        | 0                              | 2            | 368,600            | 111,290            | 144,290            | 71,360           | 212.3          | 0  | 326,940            |
| 387<br>388 | 620.2<br>654.8       | 351.5<br>358.8 | 574.5<br>557.0 | 876.3<br>863.7   | 0          | 2                              | 356<br>349 | 2               | 12              | 20<br>22        | 38<br>54              | 1                        | 0                              | 2            | 368,330<br>349,030 | 111,290<br>111,290 | 144,290<br>144,290 | 71,360<br>71,360 | 205.6<br>208.2 | 0  | 326,940<br>326,940 |
| 389        | 365.7                | 255.6          | 647.3          | 788.1            | 0          | 1                              | 324        | 5               | 10              | 24              | 64                    | 0                        | 1                              | 2            | 412,070            | 138,170            | 127,950            | 57,940           | 211.6          | 0  | 324,060            |
| 390        | 349.3<br>335.7       | 239.2          | 678.9<br>678.0 | 808.2            | 0          | 1 1                            | 332<br>326 | 5<br>4          | 9 8             | 25<br>23        | 63<br>55              | 0                        | 0                              | 2            | 416,530            | 138,170<br>138,170 | 127,950            | 57,940           | 214.3          | 0  | 324,060<br>324,060 |
| 391<br>392 | 357.4                | 219.8          | 683.9          | 810.6<br>816.8   | 0          | 1                              | 336        | 4               | 8               | 23              | 55                    | 0                        | 0                              | 2            | 413,150<br>412,870 | 138,170            | 127,950<br>127,950 | 57,940<br>57,940 | 214.6<br>208.0 | 0  | 324,060            |
| 393        | 391.8                | 227.0          | 666.3          | 804.2            | 0          | 1                              | 329        | 5               | 13              | 25              | 71                    | 1                        | 0                              | 2            | 393,580            | 138,170            | 127,950            | 57,940           | 210.5          | 0  | 324,060            |
| 394        | 410.8                | 225.1          | 702.5          | 748.2<br>772.3   | 0          | 1 1                            | 333        | 4               | 17<br>9         | 22              | 60<br>57              | 0                        | 0                              | 3<br>0       | 427,020            | 127,350            | 125,570            | 57,940           | 233.8<br>218.7 | 0  | 310,860            |
| 395<br>396 | 414.6<br>398.2       | 280.3<br>263.9 | 695.7<br>727.3 | 792.5            | 0          | 1                              | 326<br>334 | 4               | 8               | 23              | 56                    | 0                        | 1                              | 0            | 400,600<br>405,070 | 145,070<br>145,070 | 131,060<br>131,060 | 57,940<br>57,940 | 218.7          | 0  | 334,070<br>334,070 |
| 397        | 384.6                | 247.6          | 726.4          | 794.9            | 0          | 1                              | 328        | 3               | 7               | 22              | 48                    | 0                        | 1                              | 0            | 401,680            | 145,070            | 131,060            | 57,940           | 221.8          | 0  | 334,070            |
| 398<br>399 | 406.3<br>440.7       | 244.5<br>251.7 | 732.3<br>714.7 | 801.0<br>788.5   | 0          | 1 1                            | 338<br>331 | 3               | 7<br>12         | 22<br>24        | 48<br>64              | 0                        | 1                              | 0            | 401,410            | 145,070<br>145,070 | 131,060<br>131,060 | 57,940<br>57,940 | 215.1<br>217.7 | 0  | 334,070<br>334,070 |
| 400        | 459.7                | 249.8          | 751.0          | 732.5            | 0          | 1                              | 335        | 0               | 16              | 21              | 53                    | 0                        | 1                              | 1            | 382,110<br>415,550 | 134,250            | 128,690            | 57,940           | 241.0          | 0  | 320,880            |
| 401        | 433.0                | 250.3          | 739.7          | 742.0            | 0          | 2                              | 330        | 2               | 10              | 17              | 45                    | 0                        | 1                              | 1            | 416,710            | 158,250            | 111,590            | 57,940           | 249.2          | 0  | 327,780            |
| 402        | 454.6                | 260.7<br>386.0 | 715.1<br>535.7 | 775.3            | 0          | 2                              | 328        | 0 2             | 10<br>9         | 15              | 35<br>47              | 0                        | 0                              | 2            | 441,360            | 139,860            | 112,150            | 64,390           | 263.9          | 0  | 316,400<br>324,130 |
| 403<br>404 | 626.0<br>609.6       | 369.6          | 567.3          | 841.0<br>861.1   | 0          | 2 2                            | 342<br>350 | 2               | 8               | 21<br>22        | 47                    | 0                        | 0                              | 2            | 368,910<br>373,380 | 111,290<br>111,290 | 144,290<br>144,290 | 68,550<br>68,550 | 209.2<br>212.0 | 0  | 324,130            |
| 405        | 596.1                | 353.4          | 566.4          | 863.6            | 0          | 2                              | 344        | 1               | 7               | 20              | 38                    | 0                        | 0                              | 2            | 369,990            | 111,290            | 144,290            | 68,550           | 212.3          | 0  | 324,130            |
| 406        | 617.6                | 350.2          | 572.3          | 869.7            | 0          | 2                              | 354        | 1               | 7               | 20              | 38                    | 0                        | 0                              | 2            | 369,720            | 111,290            | 144,290            | 68,550           | 205.6          | 0  | 324,130            |
| 407<br>408 | 652.2<br>363.1       | 357.5<br>254.3 | 554.8<br>645.1 | 857.2<br>781.5   | 0          | 2                              | 347<br>322 | 2<br>5          | 12<br>10        | 22<br>24        | 54<br>64              | 0                        | 0                              | 2            | 350,420<br>413,460 | 111,290<br>138,170 | 144,290<br>127,950 | 68,550<br>55,120 | 208.2<br>211.6 | 0  | 324,130<br>321,240 |
| 409        | 346.7                | 237.9          | 676.7          | 801.7            | 0          | 1                              | 330        | 5               | 9               | 25              | 63                    | 0                        | 0                              | 2            | 417,920            | 138,170            | 127,950            | 55,120           | 214.3          | 0  | 321,240            |
| 410        | 333.2                | 221.6          | 675.8          | 804.1            | 0          | 1                              | 324        | 4               | 8               | 23              | 55                    | 0                        | 0                              | 2            | 414,540            | 138,170            | 127,950            | 55,120           | 214.6          | 0  | 321,240            |
| 411        | 354.8<br>389.4       | 218.5<br>225.8 | 681.7<br>664.1 | 810.2<br>797.7   | 0          | 1                              | 334<br>327 | 4<br>5          | 8<br>13         | 23<br>25        | 55<br>71              | 0                        | 0                              | 2            | 414,260<br>394,970 | 138,170<br>138,170 | 127,950<br>127,950 | 55,120<br>55,120 | 208.0<br>210.5 | 0  | 321,240<br>321,240 |
| 413        | 408.2                | 223.8          | 700.3          | 741.7            | 0          | 1                              | 331        | 1               | 17              | 22              | 60                    | 0                        | 0                              | 3            | 428,410            | 127,350            | 125,570            | 55,120           | 233.8          | 0  | 308,040            |
| 414        | 412.0                | 279.0          | 693.5          | 765.8            | 0          | 1                              | 324        | 4               | 9               | 23              | 57                    | 0                        | 2                              | 0            | 402,000            | 145,070            | 131,060            | 55,120           | 218.7          | 0  | 331,250            |
| 415<br>416 | 395.6<br>382.1       | 262.6<br>246.3 | 725.1<br>724.2 | 785.9<br>788.3   | 0          | 1                              | 332<br>326 | 3               | 7               | 24<br>22        | 56<br>48              | 0                        | 1                              | 0            | 406,460<br>403,080 | 145,070<br>145,070 | 131,060<br>131,060 | 55,120<br>55,120 | 221.5<br>221.8 | 0  | 331,250<br>331,250 |
| 417        | 403.7                | 243.2          | 730.1          | 794.5            | 0          | 1                              | 336        | 3               | 7               | 22              | 48                    | 0                        | 1                              | 0            | 402,800            | 145,070            | 131,060            | 55,120           | 215.1          | 0  | 331,250            |
| 418        | 438.3                | 250.5          | 712.5          | 781.9            | 0          | 1                              | 329        | 4               | 12              | 24              | 64                    | 1                        | 1                              | 0            | 383,500            | 145,070            | 131,060            | 55,120           | 217.7          | 0  | 331,250            |
| 419        | 457.1                | 248.5          | 748.8          | 725.9            | 0          | 1                              | 333        | 0               | 16              | 21<br>17        | 53                    | 0                        | 1                              | 1            | 416,940            | 134,250            | 128,690<br>111,590 | 55,120           | 241.0<br>249.2 | 0  | 318,060<br>324,960 |
| 420<br>421 | 430.4<br>452.0       | 249.0<br>259.4 | 737.5<br>712.8 | 735.5<br>768.8   | 0          | 2 2                            | 328<br>326 | 0               | 10<br>10        | 15              | 45<br>35              | 0                        | 0                              | 1            | 418,100<br>442,750 | 158,250<br>139,860 | 112,150            | 55,120<br>61,580 | 263.9          | 0  | 313,590            |
| 422        | 430.7                | 249.1          | 696.8          | 713.0            | 0          | 2                              | 315        | 0               | 10              | 14              | 34                    | 0                        | 0                              | 1            | 449,390            | 147,460            | 93,090             | 65,500           | 265.4          | 0  | 306,050            |
| 423        | 906.1                | 459.4          | 522.0          | 1008.3           | 0          | 1                              | 346        | 2               | 15<br>14        | 17              | 55<br>54              | 0                        | 2                              | 5            | 227,590            | 126,440            | 150,950            | 63,280           | 236.8          | 0  | 340,670            |
| 424<br>425 | 889.8<br>876.2       | 443.1<br>426.8 | 553.6<br>552.7 | 1028.4<br>1030.8 | 0          | 1 1                            | 354<br>348 | 2               | 14<br>13        | 18<br>16        | 54<br>46              | 0                        | 1                              | 5<br>5       | 232,050<br>228,670 | 126,440<br>126,440 | 150,950<br>150,950 | 63,280<br>63,280 | 239.6<br>239.9 | 0  | 340,670<br>340,670 |
| 426        | 897.8                | 423.7          | 558.6          | 1037.0           | 0          | 1                              | 358        | 1               | 13              | 16              | 46                    | 0                        | 1                              | 5            | 228,390            | 126,440            | 150,950            | 63,280           | 233.2          | 0  | 340,670            |
| 427        | 932.3                | 430.9          | 541.0          | 1024.4           | 0          | 1                              | 351        | 2               | 18              | 18              | 62                    | 1                        | 1                              | 5            | 209,100            | 126,440            | 150,950            | 63,280           | 235.8          | 0  | 340,670            |
| 428<br>429 | 643.3<br>626.9       | 327.7<br>311.3 | 631.3<br>662.9 | 948.8<br>968.9   | 0          | 0                              | 326<br>334 | 5<br>5          | 16<br>15        | 20<br>21        | 72<br>71              | 0                        | 2                              | 5<br>5       | 272,130<br>276,590 | 153,330<br>153,330 | 134,610<br>134,610 | 49,850<br>49,850 | 239.1<br>241.9 | 0  | 337,790<br>337,790 |
| 430        | 613.4                | 295.1          | 662.0          | 971.3            | 0          | 0                              | 328        | 4               | 14              | 19              | 63                    | 0                        | 1                              | 5            | 273,210            | 153,330            | 134,610            | 49,850           | 242.2          | 0  | 337,790            |
| 431        | 634.9                | 291.9          | 667.9          | 977.5            | 0          | 0                              | 338        | 4               | 14              | 19              | 63                    | 0                        | 1                              | 5            | 272,940            | 153,330            | 134,610            | 49,850           | 235.5          | 0  | 337,790            |
| 432<br>433 | 669.5<br>688.3       | 299.2<br>297.2 | 650.3<br>686.6 | 965.0<br>909.0   | 0          | 0                              | 331<br>335 | 5<br>1          | 19<br>23        | 21<br>18        | 79<br>68              | 0                        | 1                              | 5<br>6       | 253,640<br>287,080 | 153,320<br>142,500 | 134,610<br>132,230 | 49,850<br>49,850 | 238.1<br>261.4 | 0  | 337,780<br>324,580 |
| 434        | 692.2                | 352.4          | 679.8          | 933.1            | 0          | 0                              | 328        | 4               | 15              | 19              | 65                    | 0                        | 3                              | 3            | 260,670            | 160,220            | 137,720            | 49,850           | 246.3          | 0  | 347,790            |
| 435        | 675.8                | 336.0          | 711.4          | 953.2            | 0          | 0                              | 336        | 4               | 14              | 20              | 64                    | 0                        | 2                              | 3            | 265,130            | 160,220            | 137,720            | 49,850           | 249.1          | 0  | 347,790            |
| 436        | 662.3<br>683.8       | 319.8<br>316.6 | 710.5<br>716.4 | 955.6<br>961.8   | 0          | 0                              | 330<br>340 | 3               | 13<br>13        | 18<br>18        | 56<br>56              | 0                        | 2                              | 3            | 261,750<br>261,470 | 160,220<br>160,220 | 137,720<br>137,720 | 49,850<br>49,850 | 249.4<br>242.7 | 0  | 347,790<br>347,790 |
| 437<br>438 | 718.4                | 323.9          | 698.8          | 949.2            | 0          | 0                              | 333        | 4               | 18              | 20              | 72                    | 1                        | 2                              | 3            | 242,180            | 160,220            | 137,720            | 49,850           | 242.7          | 0  | 347,790            |
| 439        | 737.2                | 321.9          | 735.0          | 893.2            | 0          | 0                              | 337        | 0               | 22              | 17              | 61                    | 0                        | 2                              | 4            | 275,620            | 149,400            | 135,350            | 49,850           | 268.6          | 0  | 334,600            |
| 440        | 710.5                | 322.4          | 723.7          | 902.7            | 0          | 1                              | 332        | 2               | 16              | 13              | 53                    | 0                        | 2                              | 4            | 276,780            | 173,400            | 118,250            | 49,850           | 276.8          | 0  | 341,500            |
| 441        | 732.1                | 332.8          | 699.1          | 936.1            | 0          | 1                              | 330        | 0               | 16              | 11              | 43                    | 0                        | 1                              | 4            | 301,430            | 155,010            | 118,810            | 56,310           | 291.5          | 0  | 330,130            |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 442        | 708.6                                    | 402.2                         | 586.6                         | 842.5                          | 0   | 1  | 338                           | 2  | 16                                       | 17                                       | 57   | 0   | 2   | 3                                 | 331,310  | 116,520                     | 136,670                        | 56,210                       | 237.3                 | 0  | 309,400            |
| 443<br>444 | 692.2<br>678.7                           | 385.8<br>369.6                | 618.3<br>617.4                | 862.6<br>865.0                 | 0   | 1  | 346<br>340                    | 2  | 15<br>14                                 | 18<br>16                                 | 56<br>48                                     | 0   | 1   | 3                                 | 335,770<br>332,390                               | 116,520<br>116,520          | 136,670<br>136,670             | 56,210<br>56,210             | 240.1<br>240.4        | 0  | 309,400<br>309,400 |
| 444        | 700.2                                    | 366.4                         | 623.2                         | 871.2                          | 0   | 1  | 350                           | 1  | 14                                       | 16                                       | 48   | 0   | 1   | 3                                 | 332,390  | 116,520                     | 136,670                        | 56,210                       | 233.7                 | 0  | 309,400            |
| 446        | 734.8                                    | 373.7                         | 605.7                         | 858.6                          | 0   | 1  | 343                           | 2  | 19                                       | 18                                       | 64   | 1   | 1   | 3                                 | 312,820  | 116,510                     | 136,670                        | 56,210                       | 236.3                 | 0  | 309,390            |
| 447        | 445.8                                    | 270.5                         | 696.0                         | 783.0                          | 0   | 0  | 318                           | 5  | 17                                       | 20                                       | 74   | 0   | 2   | 3                                 | 375,860  | 143,400                     | 120,330                        | 42,780                       | 239.7                 | 0  | 306,510            |
| 448        | 429.4                                    | 254.1                         | 727.6                         | 803.2                          | 0   | 0  | 326                           | 5  | 16                                       | 21                                       | 73   | 0   | 1   | 3                                 | 380,320  | 143,400                     | 120,330                        | 42,780                       | 242.4                 | 0  | 306,510            |
| 449<br>450 | 415.8<br>437.4                           | 237.8                         | 726.7<br>732.6                | 805.6<br>811.7                 | 0   | 0  | 320<br>330                    | 4  | 15<br>15                                 | 19<br>19                                 | 65<br>65                                     | 0   | 1   | 3                                 | 376,940<br>376,660                               | 143,400<br>143,400          | 120,330<br>120,330             | 42,780<br>42,780             | 242.7<br>236.0        | 0  | 306,510<br>306,510 |
| 451        | 472.0                                    | 242.0                         | 715.0                         | 799.2                          | 0   | 0  | 323                           | 5  | 20                                       | 21                                       | 81   | 1   | 1   | 3                                 | 357,360  | 143,400                     | 120,330                        | 42,780                       | 238.6                 | 0  | 306,500            |
| 452        | 490.8                                    | 240.0                         | 751.3                         | 743.2                          | 0   | 0  | 327                           | 1  | 24                                       | 18                                       | 70   | 0   | 1   | 4                                 | 390,800  | 132,570                     | 117,950                        | 42,780                       | 261.9                 | 0  | 293,300            |
| 453        | 494.7                                    | 295.2                         | 744.4                         | 767.3                          | 0   | 0  | 320                           | 4  | 16                                       | 19                                       | 67   | 0   | 3   | 1                                 | 364,390  | 150,300                     | 123,440                        | 42,780                       | 246.8                 | 0  | 316,520            |
| 454        | 478.3                                    | 278.8                         | 776.1                         | 787.4                          | 0   | 0  | 328                           | 4  | 15                                       | 20                                       | 66   | 0   | 2   | 1                                 | 368,850  | 150,300                     | 123,440                        | 42,780                       | 249.6                 | 0  | 316,520            |
| 455<br>456 | 464.7<br>486.3                           | 262.5<br>259.4                | 775.2<br>781.0                | 789.8<br>796.0                 | 0   | 0  | 322<br>332                    | 3  | 14<br>14                                 | 18<br>18                                 | 58<br>58                                     | 0   | 2   | 1 1                               | 365,470<br>365,200                               | 150,300<br>150,300          | 123,440<br>123,440             | 42,780<br>42,780             | 249.9<br>243.2        | 0  | 316,520<br>316,520 |
| 457        | 520.9                                    | 266.7                         | 763.5                         | 783.4                          | 0   | 0  | 325                           | 4  | 19                                       | 20                                       | 74   | 1   | 2   | 1                                 | 345,900  | 150,300                     | 123,440                        | 42,780                       | 245.2                 | 0  | 316,520            |
| 458        | 539.7                                    | 264.7                         | 799.7                         | 727.4                          | 0   | 0  | 329                           | 0  | 23                                       | 17                                       | 63   | 0   | 2   | 2                                 | 379,340  | 139,470                     | 121,060                        | 42,780                       | 269.1                 | 0  | 303,310            |
| 459        | 513.0                                    | 265.2                         | 788.4                         | 736.9                          | 0   | 1  | 324                           | 2  | 17                                       | 13                                       | 55   | 0   | 2   | 2                                 | 380,500  | 163,470                     | 103,970                        | 42,780                       | 277.3                 | 0  | 310,220            |
| 460        | 534.6                                    | 275.6                         | 763.8                         | 770.3                          | 0   | 1  | 322                           | 0  | 17                                       | 11                                       | 45   | 0   | 1   | 2                                 | 405,150  | 145,080                     | 104,520                        | 49,240                       | 292.0                 | 0  | 298,840            |
| 461<br>462 | 639.6<br>623.2                           | 367.2<br>350.8                | 545.1<br>576.7                | 869.1<br>889.3                 | 0   | 1  | 327<br>335                    | 2 2                                      | 15<br>14                                 | 17<br>18                                 | 55<br>54                                     | 0   | 1   | 2                                 | 364,450<br>368,910                               | 120,060<br>120,060          | 124,890<br>124,890             | 68,900<br>68,900             | 218.7<br>221.5        | 0  | 313,850<br>313,850 |
| 463        | 609.6                                    | 334.5                         | 575.8                         | 891.7                          | 0   | 1  | 329                           | 1  | 13                                       | 16                                       | 46   | 0   | 1   | 2                                 | 365,530  | 120,060                     | 124,890                        | 68,900                       | 221.8                 | 0  | 313,850            |
| 464        | 631.2                                    | 331.4                         | 581.7                         | 897.9                          | 0   | 1  | 339                           | 1  | 13                                       | 16                                       | 46   | 0   | 1   | 2                                 | 365,250  | 120,060                     | 124,890                        | 68,900                       | 215.1                 | 0  | 313,850            |
| 465        | 665.7                                    | 338.6                         | 564.2                         | 885.3                          | 0   | 1  | 332                           | 2  | 18                                       | 18                                       | 62   | 1   | 1   | 2                                 | 345,950  | 120,050                     | 124,890                        | 68,900                       | 217.6                 | 0  | 313,840            |
| 466        | 376.7                                    | 235.4                         | 654.5                         | 809.7                          | 0   | 0  | 307                           | 5  | 16                                       | 20                                       | 72   | 0   | 2   | 2                                 | 408,990  | 146,940                     | 108,550                        | 55,470                       | 221.0                 | 0  | 310,960            |
| 467<br>468 | 360.4<br>346.8                           | 219.1                         | 686.1<br>685.2                | 829.8<br>832.2                 | 0   | 0  | 315<br>309                    | 5<br>4                                   | 15<br>14                                 | 21<br>19                                 | 71<br>63                                     | 0   | 1   | 2                                 | 413,450<br>410,070                               | 146,940<br>146,940          | 108,550<br>108,550             | 55,470<br>55,470             | 223.8<br>224.1        | 0  | 310,960<br>310,960 |
| 469        | 368.4                                    | 199.7                         | 691.1                         | 838.4                          | 0   | 0  | 319                           | 4  | 14                                       | 19                                       | 63   | 0   | 1   | 2                                 | 409,800  | 146,940                     | 108,550                        | 55,470                       | 217.4                 | 0  | 310,960            |
| 470        | 402.9                                    | 206.9                         | 673.5                         | 825.8                          | 0   | 0  | 312                           | 5  | 19                                       | 21                                       | 79   | 1   | 1   | 2                                 | 390,500  | 146,930                     | 108,550                        | 55,470                       | 220.0                 | 0  | 310,950            |
| 471        | 421.8                                    | 205.0                         | 709.7                         | 769.8                          | 0   | 0  | 316                           | 1  | 23                                       | 18                                       | 68   | 0   | 1   | 3                                 | 423,940  | 136,120                     | 106,170                        | 55,470                       | 243.2                 | 0  | 297,760            |
| 472<br>473 | 425.6<br>409.3                           | 260.1<br>243.8                | 702.9<br>734.5                | 793.9<br>814.1                 | 0   | 0  | 309<br>317                    | 4  | 15<br>14                                 | 19<br>20                                 | 65<br>64                                     | 0   | 3   | 0                                 | 397,530<br>401,990                               | 153,840<br>153,840          | 111,660<br>111,660             | 55,470<br>55,470             | 228.2<br>231.0        | 0  | 320,970<br>320,970 |
| 474        | 395.7                                    | 227.5                         | 733.6                         | 816.5                          | 0   | 0  | 311                           | 3  | 13                                       | 18                                       | 56   | 0   | 2   | 0                                 | 398,610  | 153,840                     | 111,660                        | 55,470                       | 231.3                 | 0  | 320,970            |
| 475        | 417.3                                    | 224.4                         | 739.5                         | 822.6                          | 0   | 0  | 321                           | 3  | 13                                       | 18                                       | 56   | 0   | 2   | 0                                 | 398,330  | 153,840                     | 111,660                        | 55,470                       | 224.6                 | 0  | 320,970            |
| 476        | 451.8                                    | 231.6                         | 721.9                         | 810.1                          | 0   | 0  | 314                           | 4  | 18                                       | 20                                       | 72   | 1   | 2   | 0                                 | 379,030  | 153,830                     | 111,660                        | 55,470                       | 227.2                 | 0  | 320,960            |
| 477        | 470.7                                    | 229.7                         | 758.2                         | 754.1                          | 0   | 0  | 318                           | 0  | 22                                       | 17                                       | 61   | 0   | 2   | 1                                 | 412,470  | 143,020                     | 109,290                        | 55,470                       | 250.4                 | 0  | 307,780            |
| 478<br>479 | 444.0<br>465.6                           | 230.2                         | 746.9<br>722.2                | 763.6<br>796.9                 | 0   | 1  | 313<br>311                    | 0  | 16<br>16                                 | 13<br>11                                 | 53<br>43                                     | 0   | 1   | 1 1                               | 413,630<br>438,280                               | 167,010<br>148,620          | 92,190<br>92,750               | 55,470<br>61,930             | 258.7<br>273.4        | 0  | 314,670<br>303,300 |
| 480        | 637.0                                    | 365.9                         | 542.9                         | 862.6                          | 0   | 1  | 325                           | 2  | 15                                       | 17                                       | 55   | 0   | 2   | 2                                 | 365,840  | 120,060                     | 124,890                        | 66,090                       | 218.7                 | 0  | 311,040            |
| 481        | 620.6                                    | 349.5                         | 574.5                         | 882.7                          | 0   | 1  | 333                           | 2  | 14                                       | 18                                       | 54   | 0   | 1   | 2                                 | 370,300  | 120,060                     | 124,890                        | 66,090                       | 221.5                 | 0  | 311,040            |
| 482        | 607.0                                    | 333.2                         | 573.6                         | 885.2                          | 0   | 1  | 327                           | 1  | 13                                       | 16                                       | 46   | 0   | 1   | 2                                 | 366,920  | 120,060                     | 124,890                        | 66,090                       | 221.8                 | 0  | 311,040            |
| 483        | 628.6                                    | 330.1                         | 579.5                         | 891.3                          | 0   | 1  | 337                           | 1  | 13                                       | 16                                       | 46   | 0   | 1   | 2                                 | 366,640  | 120,060                     | 124,890                        | 66,090                       | 215.1                 | 0  | 311,040            |
| 484<br>485 | 663.2<br>374.1                           | 337.4<br>234.1                | 562.0<br>652.3                | 878.8<br>803.1                 | 0   | 0  | 330<br>305                    | 5  | 18<br>16                                 | 18<br>20                                 | 62<br>72                                     | 0   | 2   | 2 2                               | 347,340<br>410,380                               | 120,050<br>146,940          | 124,890<br>108,550             | 66,090<br>52,660             | 217.6<br>221.0        | 0  | 311,030<br>308,150 |
| 486        | 357.8                                    | 217.8                         | 683.9                         | 823.3                          | 0   | 0  | 313                           | 5  | 15                                       | 21                                       | 71   | 0   | 1   | 2                                 | 414,840  | 146,940                     | 108,550                        | 52,660                       | 223.8                 | 0  | 308,150            |
| 487        | 344.2                                    | 201.5                         | 683.0                         | 825.7                          | 0   | 0  | 307                           | 4  | 14                                       | 19                                       | 63   | 0   | 1   | 2                                 | 411,460  | 146,940                     | 108,550                        | 52,660                       | 224.1                 | 0  | 308,150            |
| 488        | 365.8                                    | 198.4                         | 688.9                         | 831.8                          | 0   | 0  | 317                           | 4  | 14                                       | 19                                       | 63   | 0   | 1   | 2                                 | 411,190  | 146,940                     | 108,550                        | 52,660                       | 217.4                 | 0  | 308,150            |
| 489        | 400.3<br>419.2                           | 205.6                         | 671.3<br>707.5                | 819.3<br>763.3                 | 0   | 0  | 310<br>314                    | 5  | 19<br>23                                 | 21<br>18                                 | 79<br>68                                     | 0   | 1   | 3                                 | 391,890<br>425,330                               | 146,930<br>136,120          | 108,550<br>106,170             | 52,660<br>52,660             | 220.0<br>243.2        | 0  | 308,140<br>294,950 |
| 490<br>491 | 419.2                                    | 258.8                         | 707.5                         | 763.3<br>787.4                 | 0   | 0  | 314                           | 4  | 23<br>15                                 | 19                                       | 65   | 0   | 3   | 0                                 | 398,920  | 153,840                     | 111,660                        | 52,660                       | 243.2                 | 0  | 318,160            |
| 492        | 406.7                                    | 242.5                         | 732.3                         | 807.5                          | 0   | 0  | 315                           | 4  | 14                                       | 20                                       | 64   | 0   | 2   | 0                                 | 403,380  | 153,840                     | 111,660                        | 52,660                       | 231.0                 | 0  | 318,160            |
| 493        | 393.1                                    | 226.2                         | 731.4                         | 809.9                          | 0   | 0  | 309                           | 3  | 13                                       | 18                                       | 56   | 0   | 2   | 0                                 | 400,000  | 153,840                     | 111,660                        | 52,660                       | 231.3                 | 0  | 318,160            |
| 494        | 414.7                                    | 223.1                         | 737.3                         | 816.1                          | 0   | 0  | 319                           | 3  | 13                                       | 18                                       | 56   | 0   | 2   | 0                                 | 399,720  | 153,840                     | 111,660                        | 52,660                       | 224.6                 | 0  | 318,160            |
| 495<br>496 | 449.2<br>468.1                           | 230.3<br>228.4                | 719.7<br>756.0                | 803.5<br>747.5                 | 0   | 0  | 312<br>316                    | 0  | 18<br>22                                 | 20<br>17                                 | 72<br>61                                     | 0   | 2   | 0 1                               | 380,420<br>413,870                               | 153,830<br>143,020          | 111,660<br>109,290             | 52,660<br>52,660             | 227.2<br>250.4        | 0  | 318,150<br>304,970 |
| 490        | 441.4                                    | 228.9                         | 744.7                         | 757.0                          | 0   | 1  | 311                           | 2  | 16                                       | 13                                       | 53   | 0   | 2   | 1                                 | 415,020  | 167,010                     | 92,190                         | 52,660                       | 258.7                 | 0  | 311,860            |
| 498        | 463.1                                    | 239.3                         | 720.0                         | 790.4                          | 0   | 1  | 309                           | 0  | 16                                       | 11                                       | 43   | 0   | 1   | 1                                 | 439,670  | 148,620                     | 92,750                         | 59,120                       | 273.4                 | 0  | 300,490            |
| 499        | 685.4                                    | 410.0                         | 547.4                         | 868.8                          | 0   | 1  | 352                           | 2  | 14                                       | 21                                       | 57   | 0   | 2   | 2                                 | 333,470  | 114,900                     | 143,510                        | 72,840                       | 225.2                 | 0  | 331,250            |
| 500        | 669.0                                    | 393.6                         | 579.0                         | 888.9                          | 0   | 1  | 360                           | 2  | 13                                       | 22                                       | 56   | 0   | 1   | 2                                 | 337,930  | 114,900                     | 143,510                        | 72,840                       | 228.0                 | 0  | 331,250            |
| 501<br>502 | 655.5<br>677.1                           | 377.4<br>374.3                | 578.1<br>584.0                | 891.3<br>897.5                 | 0   | 1  | 354<br>364                    | 1 1                                      | 12<br>12                                 | 20                                       | 48<br>48                                     | 0   | 1   | 2                                 | 334,550<br>334,280                               | 114,900<br>114,900          | 143,510<br>143,510             | 72,840<br>72,840             | 228.3<br>221.6        | 0  | 331,250<br>331,250 |
| 503        | 711.6                                    | 381.5                         | 566.4                         | 884.9                          | 0   | 1  | 357                           | 2  | 17                                       | 22                                       | 64   | 1   | 1   | 2                                 | 314,980  | 114,890                     | 143,510                        | 72,840                       | 224.2                 | 0  | 331,240            |
| 504        | 422.5                                    | 278.3                         | 656.7                         | 809.3                          | 0   | 0  | 332                           | 5  | 15                                       | 24                                       | 74   | 0   | 2   | 2                                 | 378,020  | 141,780                     | 127,170                        |                              | 227.5                 | 0  | 328,370            |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 505        | 406.1                                    | 261.9                         | 688.3                         | 829.4                          | 0   | 0  | 340                           | 5  | 14                                       | 25                                       | 73   | 0   | 1   | 2                                 | 382,480  | 141,780                     | 127,170                        | 59,420                       | 230.3                 | 0  | 328,370            |
| 506        | 392.5                                    | 245.6                         | 687.4                         | 831.8                          | 0   | 0  | 334                           | 4  | 13                                       | 23                                       | 65   | 0   | 1   | 2                                 | 379,100  | 141,780                     | 127,170                        | 59,420                       | 230.6                 | 0  | 328,370            |
| 507        | 414.2                                    | 242.5                         | 693.3                         | 838.0                          | 0   | 0  | 344                           | 4  | 13                                       | 23                                       | 65   | 0   | 1   | 2                                 | 378,820  | 141,780                     | 127,170                        | 59,420                       | 223.9                 | 0  | 328,370            |
| 508<br>509 | 448.7<br>467.6                           | 249.8<br>247.8                | 675.8<br>712.0                | 825.4<br>769.4                 | 0   | 0  | 337<br>341                    | 5<br>1                                   | 18<br>22                                 | 25<br>22                                 | 81<br>70                                     | 0   | 1   | 3                                 | 359,520<br>392,970                               | 141,780<br>130,960          | 127,170<br>124,790             | 59,420<br>59,420             | 226.5<br>249.8        | 0  | 328,370<br>315,170 |
| 510        | 471.4                                    | 303.0                         | 705.2                         | 793.5                          | 0   | 0  | 334                           | 4  | 14                                       | 23                                       | 67   | 0   | 3   | 0                                 | 366,550  | 148,680                     | 130,280                        | 59,420                       | 234.7                 | 0  | 338,380            |
| 511        | 455.0                                    | 286.6                         | 736.8                         | 813.7                          | 0   | 0  | 342                           | 4  | 13                                       | 24                                       | 66   | 0   | 2   | 0                                 | 371,010  | 148,680                     | 130,280                        | 59,420                       | 237.5                 | 0  | 338,380            |
| 512        | 441.4                                    | 270.3                         | 735.9                         | 816.1                          | 0   | 0  | 336                           | 3  | 12                                       | 22                                       | 58   | 0   | 2   | 0                                 | 367,630  | 148,680                     | 130,280                        | 59,420                       | 237.8                 | 0  | 338,380            |
| 513        | 463.1                                    | 267.2                         | 741.8                         | 822.3                          | 0   | 0  | 346                           | 3  | 12                                       | 22                                       | 58   | 0   | 2   | 0                                 | 367,360  | 148,680                     | 130,280                        | 59,420                       | 231.1                 | 0  | 338,380            |
| 514<br>515 | 497.6<br>516.5                           | 274.5<br>272.5                | 724.2<br>760.5                | 809.7<br>753.7                 | 0   | 0  | 339<br>343                    | 0  | 17<br>21                                 | 24<br>21                                 | 74<br>63                                     | 0   | 2   | 0                                 | 348,060<br>381,500                               | 148,670<br>137,860          | 130,280<br>127,900             | 59,420<br>59,420             | 233.7<br>257.0        | 0  | 338,370<br>325,180 |
| 516        | 489.8                                    | 272.5                         | 760.5                         | 763.2                          | 0   | 1  | 343                           | 2  | 15                                       | 17                                       | 55   | 0   | 2   | 1                                 | 381,500  | 161,850                     | 110,810                        | 59,420                       | 265.2                 | 0  | 332,080            |
| 517        | 511.4                                    | 283.4                         | 724.5                         | 796.5                          | 0   | 1  | 336                           | 0  | 15                                       | 15                                       | 45   | 0   | 1   | 1                                 | 407,310  | 143,470                     | 111,370                        | 65,870                       | 279.9                 | 0  | 320,710            |
| 518        | 682.8                                    | 408.7                         | 545.2                         | 862.2                          | 0   | 1  | 350                           | 2  | 14                                       | 21                                       | 57   | 0   | 2   | 2                                 | 334,860  | 114,900                     | 143,510                        | 70,030                       | 225.2                 | 0  | 328,440            |
| 519        | 666.4                                    | 392.3                         | 576.8                         | 882.4                          | 0   | 1  | 358                           | 2  | 13                                       | 22                                       | 56   | 0   | 1   | 2                                 | 339,330  | 114,900                     | 143,510                        | 70,030                       | 228.0                 | 0  | 328,440            |
| 520        | 652.9                                    | 376.1                         | 575.9                         | 884.8                          | 0   | 1  | 352                           | 1  | 12                                       | 20                                       | 48   | 0   | 1   | 2                                 | 335,940  | 114,900                     | 143,510                        | 70,030                       | 228.3                 | 0  | 328,440            |
| 521<br>522 | 674.5<br>709.0                           | 373.0<br>380.2                | 581.8<br>564.2                | 891.0<br>878.4                 | 0   | 1  | 362<br>355                    | 2  | 12<br>17                                 | 20<br>22                                 | 48<br>64                                     | 0   | 1   | 2                                 | 335,670<br>316,370                               | 114,900<br>114,890          | 143,510<br>143,510             | 70,030<br>70,030             | 221.6<br>224.2        | 0  | 328,440<br>328,430 |
| 523        | 419.9                                    | 277.0                         | 654.5                         | 802.7                          | 0   | 0  | 330                           | 5  | 15                                       | 24                                       | 74   | 0   | 2   | 2                                 | 379,410  | 141,780                     | 127,170                        | 56,600                       | 227.5                 | 0  | 325,550            |
| 524        | 403.5                                    | 260.6                         | 686.1                         | 822.9                          | 0   | 0  | 338                           | 5  | 14                                       | 25                                       | 73   | 0   | 1   | 2                                 | 383,870  | 141,780                     | 127,170                        | 56,600                       | 230.3                 | 0  | 325,550            |
| 525        | 390.0                                    | 244.3                         | 685.2                         | 825.3                          | 0   | 0  | 332                           | 4  | 13                                       | 23                                       | 65   | 0   | 1   | 2                                 | 380,490  | 141,780                     | 127,170                        | 56,600                       | 230.6                 | 0  | 325,550            |
| 526        | 411.6                                    | 241.2                         | 691.1                         | 831.5                          | 0   | 0  | 342                           | 4  | 13                                       | 23                                       | 65   | 0   | 1   | 2                                 | 380,210  | 141,780                     | 127,170                        | 56,600                       | 223.9                 | 0  | 325,550            |
| 527<br>528 | 446.2<br>465.0                           | 248.5<br>246.5                | 673.6<br>709.8                | 818.9<br>762.9                 | 0   | 0  | 335<br>339                    | 5<br>1                                   | 18<br>22                                 | 25<br>22                                 | 81<br>70                                     | 0   | 1   | 3                                 | 360,920<br>394,360                               | 141,780<br>130,960          | 127,170<br>124,790             | 56,600<br>56,600             | 226.5<br>249.8        | 0  | 325,550<br>312,350 |
| 529        | 468.8                                    | 301.7                         | 703.0                         | 787.0                          | 0   | 0  | 332                           | 4  | 14                                       | 23                                       | 67   | 0   | 3   | 0                                 | 367,950  | 148,680                     | 130,280                        | 56,600                       | 234.7                 | 0  | 335,560            |
| 530        | 452.4                                    | 285.3                         | 734.6                         | 807.1                          | 0   | 0  | 340                           | 4  | 13                                       | 24                                       | 66   | 0   | 2   | 0                                 | 372,410  | 148,680                     | 130,280                        | 56,600                       | 237.5                 | 0  | 335,560            |
| 531        | 439.0                                    | 269.1                         | 733.7                         | 809.5                          | 0   | 0  | 334                           | 3  | 12                                       | 22                                       | 58   | 0   | 2   | 0                                 | 369,020  | 148,680                     | 130,280                        | 56,600                       | 237.8                 | 0  | 335,560            |
| 532        | 460.5                                    | 265.9                         | 739.6                         | 815.7                          | 0   | 0  | 344                           | 3  | 12                                       | 22                                       | 58   | 0   | 2   | 0                                 | 368,750  | 148,680                     | 130,280                        | 56,600                       | 231.1                 | 0  | 335,560            |
| 533<br>534 | 495.1<br>513.9                           | 273.2<br>271.2                | 722.0<br>758.3                | 803.2<br>747.2                 | 0   | 0  | 337<br>341                    | 4<br>0                                   | 17<br>21                                 | 24<br>21                                 | 74<br>63                                     | 0   | 2   | 0 1                               | 349,450<br>382,890                               | 148,670<br>137,860          | 130,280<br>127,900             | 56,600<br>56,600             | 233.7<br>257.0        | 0  | 335,550<br>322,360 |
| 535        | 487.2                                    | 271.7                         | 736.3                         | 756.7                          | 0   | 1  | 336                           | 2  | 15                                       | 17                                       | 55   | 0   | 2   | 1                                 | 384,050  | 161,850                     | 110,810                        | 56,600                       | 265.2                 | 0  | 329,260            |
| 536        | 508.8                                    | 282.1                         | 722.3                         | 790.0                          | 0   | 1  | 334                           | 0  | 15                                       | 15                                       | 45   | 0   | 1   | 1                                 | 408,700  | 143,470                     | 111,370                        | 63,060                       | 279.9                 | 0  | 317,900            |
| 537        | 487.5                                    | 271.8                         | 706.3                         | 734.2                          | 0   | 1  | 323                           | 0  | 15                                       | 14                                       | 44   | 0   | 1   | 1                                 | 415,340  | 151,070                     | 92,310                         | 66,980                       | 281.4                 | 0  | 310,360            |
| 538        | 686.8                                    | 412.1                         | 535.8                         | 859.7                          | 0   | 1  | 341                           | 2  | 13                                       | 17                                       | 51   | 0   | 2   | 3                                 | 345,660  | 120,830                     | 136,120                        | 56,210                       | 225.5                 | 0  | 313,160            |
| 539<br>540 | 670.4<br>656.9                           | 395.7<br>379.5                | 567.4<br>566.5                | 879.9<br>882.3                 | 0   | 1  | 349<br>343                    | 2  | 12<br>11                                 | 18<br>16                                 | 50<br>42                                     | 0   | 1   | 3                                 | 350,120<br>346,740                               | 120,830<br>120,830          | 136,120<br>136,120             | 56,210<br>56,210             | 228.2<br>228.5        | 0  | 313,160<br>313,160 |
| 541        | 678.4                                    | 376.3                         | 572.4                         | 888.5                          | 0   | 1  | 353                           | 1  | 11                                       | 16                                       | 42   | 0   | 1   | 3                                 | 346,470  | 120,830                     | 136,120                        | 56,210                       | 221.8                 | 0  | 313,160            |
| 542        | 713.0                                    | 383.6                         | 554.8                         | 875.9                          | 0   | 1  | 346                           | 2  | 16                                       | 18                                       | 58   | 1   | 1   | 3                                 | 327,170  | 120,830                     | 136,120                        | 56,210                       | 224.4                 | 0  | 313,160            |
| 543        | 424.0                                    | 280.4                         | 645.1                         | 800.2                          | 0   | 0  | 321                           | 5  | 14                                       | 20                                       | 68   | 0   | 2   | 3                                 | 390,210  | 147,710                     | 119,780                        | 42,780                       | 227.8                 | 0  | 310,270            |
| 544        | 407.6                                    | 264.0                         | 676.8                         | 820.4                          | 0   | 0  | 329                           | 5  | 13                                       | 21                                       | 67   | 0   | 1   | 3                                 | 394,670  | 147,710                     | 119,780                        | 42,780                       | 230.6                 | 0  | 310,270            |
| 545<br>546 | 394.0<br>415.6                           | 247.7<br>244.6                | 675.9<br>681.8                | 822.8<br>829.0                 | 0   | 0  | 323<br>333                    | 4  | 12<br>12                                 | 19<br>19                                 | 59<br>59                                     | 0   | 1   | 3                                 | 391,290<br>391,010                               | 147,710<br>147,710          | 119,780<br>119,780             | 42,780<br>42,780             | 230.9<br>224.2        | 0  | 310,270<br>310,270 |
| 547        | 450.2                                    | 251.9                         | 664.2                         | 816.4                          | 0   | 0  | 326                           | 5  | 17                                       | 21                                       | 75   | 1   | 1   | 3                                 | 371,710  | 147,710                     | 119,780                        | 42,780                       | 226.7                 | 0  | 310,270            |
| 548        | 469.0                                    | 249.9                         | 700.4                         | 760.4                          | 0   | 0  | 330                           | 1  | 21                                       | 18                                       | 64   | 0   | 1   | 4                                 | 405,160  | 136,890                     | 117,400                        | 42,780                       | 250.0                 | 0  | 297,070            |
| 549        | 472.9                                    | 305.1                         | 693.6                         | 784.5                          | 0   | 0  | 323                           | 4  | 13                                       | 19                                       | 61   | 0   | 3   | 1                                 | 378,740  | 154,610                     | 122,890                        | 42,780                       | 235.0                 | 0  | 320,280            |
| 550        | 456.5                                    | 288.7                         | 725.2                         | 804.6                          | 0   | 0  | 331                           | 4  | 12                                       | 20                                       | 60   | 0   | 2   | 1                                 | 383,200  | 154,610                     | 122,890                        | 42,780                       | 237.8                 | 0  | 320,280            |
| 551<br>552 | 442.9<br>464.5                           | 272.4<br>269.3                | 724.3<br>730.2                | 807.1<br>813.2                 | 0   | 0  | 325<br>335                    | 3  | 11<br>11                                 | 18<br>18                                 | 52<br>52                                     | 0   | 2   | 1 1                               | 379,820<br>379,550                               | 154,610<br>154,610          | 122,890<br>122,890             | 42,780<br>42,780             | 238.1<br>231.4        | 0  | 320,280<br>320,280 |
| 553        | 499.1                                    | 276.6                         | 712.6                         | 800.7                          | 0   | 0  | 328                           | 4  | 16                                       | 20                                       | 68   | 1   | 2   | 1                                 | 360,250  | 154,610                     | 122,890                        | 42,780                       | 233.9                 | 0  | 320,280            |
| 554        | 517.9                                    | 274.6                         | 748.9                         | 744.7                          | 0   | 0  | 332                           | 0  | 20                                       | 17                                       | 57   | 0   | 2   | 2                                 | 393,690  | 143,790                     | 120,510                        | 42,780                       | 257.2                 | 0  | 307,080            |
| 555        | 491.2                                    | 275.1                         | 737.6                         | 754.2                          | 0   | 1  | 327                           | 2  | 14                                       | 13                                       | 49   | 0   | 2   | 2                                 | 394,850  | 167,780                     | 103,420                        | 42,780                       | 265.5                 | 0  | 313,980            |
| 556        | 512.8                                    | 285.5                         | 712.9                         | 787.5                          | 0   | 1  | 325                           | 0  | 14                                       | 11                                       | 39   | 0   | 1   | 2                                 | 419,500  | 149,400                     | 103,980                        | 49,240                       | 280.1                 | 0  | 302,620            |
| 557<br>558 | 617.8<br>601.4                           | 377.1<br>360.7                | 494.3<br>525.9                | 886.4<br>906.5                 | 0   | 1  | 330<br>338                    | 2  | 12<br>11                                 | 17<br>18                                 | 49<br>48                                     | 0   | 1   | 2                                 | 378,800<br>383,260                               | 124,370<br>124,370          | 124,340<br>124,340             | 68,900<br>68,900             | 206.8<br>209.6        | 0  | 317,610<br>317,610 |
| 559        | 587.8                                    | 344.4                         | 525.9                         | 908.9                          | 0   | 1  | 332                           | 1  | 10                                       | 16                                       | 40   | 0   | 1   | 2                                 | 379,880  | 124,370                     | 124,340                        | 68,900                       | 209.6                 | 0  | 317,610            |
| 560        | 609.4                                    | 341.3                         | 530.9                         | 915.1                          | 0   | 1  | 342                           | 1  | 10                                       | 16                                       | 40   | 0   | 1   | 2                                 | 379,600  | 124,370                     | 124,340                        | 68,900                       | 203.2                 | 0  | 317,610            |
| 561        | 643.9                                    | 348.5                         | 513.3                         | 902.5                          | 0   | 1  | 335                           | 2  | 15                                       | 18                                       | 56   | 1   | 1   | 2                                 | 360,300  | 124,370                     | 124,340                        | 68,900                       | 205.8                 | 0  | 317,610            |
| 562        | 354.9                                    | 245.3                         | 603.6                         | 826.9                          | 0   | 0  | 310                           | 5  | 13                                       | 20                                       | 66   | 0   | 2   | 2                                 | 423,340  | 151,250                     | 108,000                        | 55,470                       | 209.1                 | 0  | 314,720            |
| 563<br>564 | 338.6<br>325.0                           | 229.0<br>212.7                | 635.2<br>634.3                | 847.0<br>849.4                 | 0   | 0  | 318<br>312                    | 5<br>4                                   | 12<br>11                                 | 21<br>19                                 | 65<br>57                                     | 0   | 1   | 2 2                               | 427,800<br>424,420                               | 151,250<br>151,250          | 108,000<br>108,000             | 55,470<br>55,470             | 211.9<br>212.2        | 0  | 314,720<br>314,720 |
| 565        | 346.6                                    | 209.6                         | 640.2                         | 855.6                          | 0   | 0  | 322                           | 4  | 11                                       | 19                                       | 57   | 0   | 1   | 2                                 | 424,420  | 151,250                     | 108,000                        | 55,470                       | 205.5                 | 0  | 314,720            |
| 566        | 381.1                                    | 216.8                         | 622.7                         | 843.1                          | 0   | 0  | 315                           | 5  | 16                                       | 21                                       | 73   | 1   | 1   | 2                                 | 404,850  | 151,250                     | 108,000                        | 55,470                       | 208.1                 | 0  | 314,720            |
| 567        | 400.0                                    | 214.9                         | 658.9                         | 787.1                          | 0   | 0  | 319                           | 1  | 20                                       | 18                                       | 62   | 0   | 1   | 3                                 | 438,290  | 140,430                     | 105,620                        | 55,470                       | 231.4                 | 0  | 301,520            |

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| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) |                    |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|--------------------|
| 568        | 403.8                                    | 270.0                         | 652.1                         | 811.2                          | 0   | 0  | 312                           | 4  | 12                                       | 19                                       | 59   | 0   | 3   | 0                                 | 411,880  | 158,150                     | 111,110                        | 55,470                       | 216.3                 | 0  | 324,730            |
| 569        | 387.5                                    | 253.7                         | 683.7                         | 831.3                          | 0   | 0  | 320                           | 4  | 11                                       | 20                                       | 58   | 0   | 2   | 0                                 | 416,340  | 158,150                     | 111,110                        | 55,470                       | 219.1                 | 0  | 324,730            |
| 570<br>571 | 373.9<br>395.5                           | 237.4<br>234.3                | 682.8<br>688.7                | 833.7<br>839.9                 | 0   | 0  | 314<br>324                    | 3  | 10<br>10                                 | 18<br>18                                 | 50<br>50                                     | 0   | 2   | 0                                 | 412,960<br>412,680                               | 158,150<br>158,150          | 111,110<br>111,110             | 55,470<br>55,470             | 219.4<br>212.7        | 0  | 324,730<br>324,730 |
| 572        | 430.0                                    | 241.5                         | 671.1                         | 827.3                          | 0   | 0  | 317                           | 4  | 15                                       | 20                                       | 66   | 1   | 2   | 0                                 | 393,380  | 158,150                     | 111,110                        | 55,470                       | 215.3                 | 0  | 324,730            |
| 573        | 448.9                                    | 239.6                         | 707.3                         | 771.3                          | 0   | 0  | 321                           | 0  | 19                                       | 17                                       | 55   | 0   | 2   | 1                                 | 426,830  | 147,330                     | 108,740                        | 55,470                       | 238.6                 | 0  | 311,540            |
| 574        | 422.2                                    | 240.1                         | 696.0                         | 780.8                          | 0   | 1  | 316                           | 2  | 13                                       | 13                                       | 47   | 0   | 2   | 1                                 | 427,980  | 171,320                     | 91,640                         | 55,470                       | 246.8                 | 0  | 318,430            |
| 575        | 443.8                                    | 250.5                         | 671.4                         | 814.2                          | 0   | 1  | 314                           | 0  | 13                                       | 11                                       | 37   | 0   | 1   | 1                                 | 452,630  | 152,940                     | 92,200                         | 61,930                       | 261.5                 | 0  | 307,070            |
| 576        | 615.2                                    | 375.8                         | 492.1                         | 879.8                          | 0   | 1  | 328                           | 2  | 12                                       | 17                                       | 49   | 0   | 2   | 2                                 | 380,190  | 124,370                     | 124,340                        | 66,090                       | 206.8                 | 0  | 314,800            |
| 577        | 598.8<br>585.2                           | 359.4<br>343.1                | 523.7                         | 900.0<br>902.4                 | 0   | 1  | 336<br>330                    | 2  | 11<br>10                                 | 18<br>16                                 | 48   | 0   | 1   | 2                                 | 384,650  | 124,370<br>124,370          | 124,340                        | 66,090<br>66,090             | 209.6<br>209.9        | 0  | 314,800            |
| 578<br>579 | 606.8                                    | 343.1                         | 522.8<br>528.7                | 902.4                          | 0   | 1  | 340                           | 1  | 10                                       | 16                                       | 40   | 0   | 1   | 2                                 | 381,270<br>380,990                               | 124,370                     | 124,340<br>124,340             | 66,090                       | 209.9                 | 0  | 314,800<br>314,800 |
| 580        | 641.4                                    | 347.3                         | 511.1                         | 896.0                          | 0   | 1  | 333                           | 2  | 15                                       | 18                                       | 56   | 1   | 1   | 2                                 | 361,690  | 124,370                     | 124,340                        | 66,090                       | 205.8                 | 0  | 314,800            |
| 581        | 352.3                                    | 244.0                         | 601.4                         | 820.4                          | 0   | 0  | 308                           | 5  | 13                                       | 20                                       | 66   | 0   | 2   | 2                                 | 424,730  | 151,250                     | 108,000                        | 52,660                       | 209.1                 | 0  | 311,910            |
| 582        | 336.0                                    | 227.7                         | 633.0                         | 840.5                          | 0   | 0  | 316                           | 5  | 12                                       | 21                                       | 65   | 0   | 1   | 2                                 | 429,190  | 151,250                     | 108,000                        | 52,660                       | 211.9                 | 0  | 311,910            |
| 583        | 322.4                                    | 211.4                         | 632.1                         | 842.9                          | 0   | 0  | 310                           | 4  | 11                                       | 19                                       | 57   | 0   | 1   | 2                                 | 425,810  | 151,250                     | 108,000                        | 52,660                       | 212.2                 | 0  | 311,910            |
| 584        | 344.0                                    | 208.3                         | 638.0                         | 849.1                          | 0   | 0  | 320                           | 4  | 11                                       | 19                                       | 57   | 0   | 1   | 2                                 | 425,540  | 151,250                     | 108,000                        | 52,660                       | 205.5                 | 0  | 311,910            |
| 585<br>586 | 378.5<br>397.4                           | 215.5<br>213.6                | 620.5<br>656.7                | 836.5<br>780.5                 | 0   | 0  | 313<br>317                    | 5<br>1                                   | 16<br>20                                 | 21<br>18                                 | 73<br>62                                     | 0   | 1   | 3                                 | 406,240<br>439,680                               | 151,250<br>140,430          | 108,000<br>105,620             | 52,660<br>52,660             | 208.1<br>231.4        | 0  | 311,910<br>298,710 |
| 587        | 401.2                                    | 268.7                         | 649.9                         | 804.6                          | 0   | 0  | 310                           | 4  | 12                                       | 19                                       | 59   | 0   | 3   | 0                                 | 413,270  | 158,150                     | 111,110                        | 52,660                       | 216.3                 | 0  | 321,920            |
| 588        | 384.9                                    | 252.4                         | 681.5                         | 824.8                          | 0   | 0  | 318                           | 4  | 11                                       | 20                                       | 58   | 0   | 2   | 0                                 | 417,730  | 158,150                     | 111,110                        | 52,660                       | 219.1                 | 0  | 321,920            |
| 589        | 371.3                                    | 236.1                         | 680.6                         | 827.2                          | 0   | 0  | 312                           | 3  | 10                                       | 18                                       | 50   | 0   | 2   | 0                                 | 414,350  | 158,150                     | 111,110                        | 52,660                       | 219.4                 | 0  | 321,920            |
| 590        | 392.9                                    | 233.0                         | 686.5                         | 833.3                          | 0   | 0  | 322                           | 3  | 10                                       | 18                                       | 50   | 0   | 2   | 0                                 | 414,070  | 158,150                     | 111,110                        | 52,660                       | 212.7                 | 0  | 321,920            |
| 591        | 427.4                                    | 240.2                         | 668.9                         | 820.8                          | 0   | 0  | 315                           | 4  | 15                                       | 20                                       | 66   | 1   | 2   | 0                                 | 394,770  | 158,150                     | 111,110                        | 52,660                       | 215.3                 | 0  | 321,920            |
| 592        | 446.3<br>419.6                           | 238.3                         | 705.1                         | 764.8<br>774.3                 | 0   | 0  | 319<br>314                    | 0 2                                      | 19<br>13                                 | 17<br>13                                 | 55<br>47                                     | 0   | 2   | 1                                 | 428,220  | 147,330                     | 108,740                        | 52,660                       | 238.6<br>246.8        | 0  | 308,730            |
| 593<br>594 | 441.3                                    | 249.2                         | 693.8<br>669.2                | 807.6                          | 0   | 1  | 314                           | 0  | 13                                       | 11                                       | 37   | 0   | 1   | 1                                 | 429,380<br>454,030                               | 171,320<br>152,940          | 91,640<br>92,200               | 52,660<br>59,120             | 246.8                 | 0  | 315,620<br>304,260 |
| 595        | 663.6                                    | 419.9                         | 496.6                         | 886.0                          | 0   | 1  | 355                           | 2  | 11                                       | 21                                       | 51   | 0   | 2   | 2                                 | 347,820  | 119,210                     | 142,960                        | 72,840                       | 213.3                 | 0  | 335,010            |
| 596        | 647.2                                    | 403.5                         | 528.2                         | 906.1                          | 0   | 1  | 363                           | 2  | 10                                       | 22                                       | 50   | 0   | 1   | 2                                 | 352,280  | 119,210                     | 142,960                        | 72,840                       | 216.1                 | 0  | 335,010            |
| 597        | 633.7                                    | 387.3                         | 527.3                         | 908.6                          | 0   | 1  | 357                           | 1  | 9  | 20                                       | 42   | 0   | 1   | 2                                 | 348,900  | 119,210                     | 142,960                        | 72,840                       | 216.4                 | 0  | 335,010            |
| 598        | 655.3                                    | 384.2                         | 533.2                         | 914.7                          | 0   | 1  | 367                           | 1  | 9  | 20                                       | 42   | 0   | 1   | 2                                 | 348,630  | 119,210                     | 142,960                        | 72,840                       | 209.7                 | 0  | 335,010            |
| 599        | 689.8                                    | 391.4                         | 515.6<br>605.9                | 902.2                          | 0   | 0  | 360                           | 2  | 14                                       | 22                                       | 58<br>68                                     | 1   | 1   | 2                                 | 329,330  | 119,210                     | 142,960                        | 72,840                       | 212.3                 | 0  | 335,010            |
| 600<br>601 | 400.7<br>384.3                           | 288.2<br>271.8                | 637.5                         | 826.5<br>846.7                 | 0   | 0  | 335<br>343                    | 5  | 12<br>11                                 | 24<br>25                                 | 67   | 0   | 1   | 2                                 | 392,370<br>396,830                               | 146,100<br>146,100          | 126,620<br>126,620             | 59,420<br>59,420             | 215.7<br>218.5        | 0  | 332,140<br>332,140 |
| 602        | 370.7                                    | 255.5                         | 636.6                         | 849.1                          | 0   | 0  | 337                           | 4  | 10                                       | 23                                       | 59   | 0   | 1   | 2                                 | 393,450  | 146,100                     | 126,620                        | 59,420                       | 218.7                 | 0  | 332,140            |
| 603        | 392.4                                    | 252.4                         | 642.5                         | 855.2                          | 0   | 0  | 347                           | 4  | 10                                       | 23                                       | 59   | 0   | 1   | 2                                 | 393,170  | 146,100                     | 126,620                        | 59,420                       | 212.1                 | 0  | 332,140            |
| 604        | 426.9                                    | 259.7                         | 624.9                         | 842.7                          | 0   | 0  | 340                           | 5  | 15                                       | 25                                       | 75   | 1   | 1   | 2                                 | 373,880  | 146,090                     | 126,620                        | 59,420                       | 214.6                 | 0  | 332,130            |
| 605        | 445.8                                    | 257.7                         | 661.2                         | 786.7                          | 0   | 0  | 344                           | 1  | 19                                       | 22                                       | 64   | 0   | 1   | 3                                 | 407,320  | 135,270                     | 124,240                        | 59,420                       | 237.9                 | 0  | 318,930            |
| 606        | 449.6                                    | 312.9                         | 654.4                         | 810.8                          | 0   | 0  | 337                           | 4  | 11                                       | 23                                       | 61   | 0   | 3   | 0                                 | 380,900  | 152,990                     | 129,730                        | 59,420                       | 222.9                 | 0  | 342,140            |
| 607<br>608 | 433.2<br>419.6                           | 296.5<br>280.2                | 686.0<br>685.1                | 830.9<br>833.3                 | 0   | 0  | 345<br>339                    | 3  | 10<br>9                                  | 24                                       | 60<br>52                                     | 0   | 2   | 0                                 | 385,370<br>381,980                               | 152,990<br>152,990          | 129,730<br>129,730             | 59,420<br>59,420             | 225.6<br>225.9        | 0  | 342,140<br>342,140 |
| 609        | 441.3                                    | 277.1                         | 691.0                         | 839.5                          | 0   | 0  | 349                           | 3  | 9  | 22                                       | 52   | 0   | 2   | 0                                 | 381,710  | 152,990                     | 129,730                        | 59,420                       | 219.2                 | 0  | 342,140            |
| 610        | 475.8                                    | 284.4                         | 673.4                         | 826.9                          | 0   | 0  | 342                           | 4  | 14                                       | 24                                       | 68   | 1   | 2   | 0                                 | 362,410  | 152,990                     | 129,730                        | 59,420                       | 221.8                 | 0  | 342,140            |
| 611        | 494.7                                    | 282.4                         | 709.6                         | 770.9                          | 0   | 0  | 346                           | 0  | 18                                       | 21                                       | 57   | 0   | 2   | 1                                 | 395,850  | 142,170                     | 127,350                        | 59,420                       | 245.1                 | 0  | 328,940            |
| 612        | 468.0                                    | 282.9                         | 698.3                         | 780.4                          | 0   | 1  | 341                           | 2  | 12                                       | 17                                       | 49   | 0   | 2   | 1                                 | 397,010  | 166,170                     | 110,260                        | 59,420                       | 253.3                 | 0  | 335,850            |
| 613        | 489.6<br>661.0                           | 293.3                         | 673.7<br>494.4                | 813.8<br>879.5                 | 0   | 1  | 339<br>353                    | 0 2                                      | 12                                       | 15<br>21                                 | 39<br>51                                     | 0   | 2   | 2                                 | 421,660  | 147,780                     | 110,820<br>142,960             | 65,870                       | 268.0<br>213.3        | 0  | 324,470<br>332,200 |
| 614<br>615 | 644.6                                    | 418.6<br>402.2                | 526.0                         | 879.5<br>899.6                 | 0   | 1  | 353                           | 2  | 11<br>10                                 | 22                                       | 50   | 0   | 1   | 2                                 | 349,220<br>353,680                               | 119,210<br>119,210          | 142,960                        | 70,030<br>70,030             | 213.3                 | 0  | 332,200            |
| 616        | 631.1                                    | 386.0                         | 525.1                         | 902.0                          | 0   | 1  | 355                           | 1  | 9  | 20                                       | 42   | 0   | 1   | 2                                 | 350,290  | 119,210                     | 142,960                        | 70,030                       | 216.4                 | 0  | 332,200            |
| 617        | 652.7                                    | 382.9                         | 531.0                         | 908.2                          | 0   | 1  | 365                           | 1  | 9  | 20                                       | 42   | 0   | 1   | 2                                 | 350,020  | 119,210                     | 142,960                        | 70,030                       | 209.7                 | 0  | 332,200            |
| 618        | 687.2                                    | 390.1                         | 513.4                         | 895.6                          | 0   | 1  | 358                           | 2  | 14                                       | 22                                       | 58   | 1   | 1   | 2                                 | 330,720  | 119,210                     | 142,960                        | 70,030                       | 212.3                 | 0  | 332,200            |
| 619        | 398.1                                    | 286.9                         | 603.7                         | 820.0                          | 0   | 0  | 333                           | 5  | 12                                       | 24                                       | 68   | 0   | 2   | 2                                 | 393,760  | 146,100                     | 126,620                        | 56,600                       | 215.7                 | 0  | 329,320            |
| 620        | 381.7<br>368.2                           | 270.5<br>254.2                | 635.3<br>634.4                | 840.1<br>842.5                 | 0   | 0  | 341<br>335                    | 5  | 11<br>10                                 | 25<br>23                                 | 67<br>59                                     | 0   | 1   | 2                                 | 398,220  | 146,100                     | 126,620                        | 56,600                       | 218.5<br>218.7        | 0  | 329,320            |
| 621<br>622 | 368.2                                    | 254.2<br>251.1                | 640.3                         | 842.5<br>848.7                 | 0   | 0  | 335                           | 4  | 10                                       | 23                                       | 59   | 0   | 1   | 2                                 | 394,840<br>394,560                               | 146,100<br>146,100          | 126,620<br>126,620             | 56,600<br>56,600             | 218.7                 | 0  | 329,320<br>329,320 |
| 623        | 424.4                                    | 258.4                         | 622.7                         | 836.1                          | 0   | 0  | 338                           | 5  | 15                                       | 25                                       | 75   | 1   | 1   | 2                                 | 375,270  | 146,090                     | 126,620                        | 56,600                       | 214.6                 | 0  | 329,310            |
| 624        | 443.2                                    | 256.4                         | 659.0                         | 780.1                          | 0   | 0  | 342                           | 1  | 19                                       | 22                                       | 64   | 0   | 1   | 3                                 | 408,710  | 135,270                     | 124,240                        | 56,600                       | 237.9                 | 0  | 316,110            |
| 625        | 447.0                                    | 311.6                         | 652.2                         | 804.2                          | 0   | 0  | 335                           | 4  | 11                                       | 23                                       | 61   | 0   | 3   | 0                                 | 382,300  | 152,990                     | 129,730                        | 56,600                       | 222.9                 | 0  | 339,320            |
| 626        | 430.6                                    | 295.2                         | 683.8                         | 824.4                          | 0   | 0  | 343                           | 4  | 10                                       | 24                                       | 60   | 0   | 2   | 0                                 | 386,760  | 152,990                     | 129,730                        | 56,600                       | 225.6                 | 0  | 339,320            |
| 627        | 417.1                                    | 278.9                         | 682.9                         | 826.8                          | 0   | 0  | 337                           | 3  | 9  | 22                                       | 52   | 0   | 2   | 0                                 | 383,380  | 152,990                     | 129,730                        | 56,600                       | 225.9                 | 0  | 339,320            |
| 628<br>629 | 438.7<br>473.3                           | 275.8<br>283.1                | 688.8<br>671.2                | 833.0<br>820.4                 | 0   | 0  | 347<br>340                    | 3 4                                      | 9<br>14                                  | 22<br>24                                 | 52<br>68                                     | 0 1   | 2   | 0                                 | 383,100<br>363,800                               | 152,990<br>152,990          | 129,730<br>129,730             | 56,600<br>56,600             | 219.2<br>221.8        | 0  | 339,320<br>339,320 |
| 023        | <del>+</del> /3.3                        | 283.1                         | 707.4                         | 764.4                          | 0   | 0  | 344                           | 0  | 18                                       | 24                                       | 57   | 0   | 2   | 1                                 | 397,240  | 142,170                     | 127,350                        | 56,600                       | 245.1                 | 0  | 339,320            |

| Route      | Sensitive<br>Species<br>Score<br>(score) | Woodland in<br>ROW<br>(acres) | Cropland in<br>ROW<br>(acres) | Rangeland in<br>ROW<br>(acres) | NRHP Sites<br>within 1/4<br>Mile<br>(count) | Archaeological<br>Sites within<br>ROW<br>(count) | Parcels<br>Crossed<br>(count) | Residences<br>within 150 feet<br>(count) | Residences<br>within 300 feet<br>(count) | Residences<br>within 500 feet<br>(count) | Residential<br>Proximity<br>Score<br>(score) | Businesses<br>within 300<br>feet<br>(count) | Public<br>Facilities<br>within<br>500 feet<br>(count) | Outbuildings<br>in ROW<br>(count) | Length Not<br>Along Parcel<br>Boundary<br>(feet) | Low Karst<br>Risk<br>(feet) | Medium<br>Karst Risk<br>(feet) | High Karst<br>Risk<br>(feet) | Floodplain<br>(acres) | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat<br>(count) | Total<br>Length<br>Karst<br>(feet) |
|------------|--|-------------------------------|-------------------------------|--------------------------------|---|--|-------------------------------|--|--|--|--|---|---|-----------------------------------|--|-----------------------------|--------------------------------|------------------------------|-----------------------|--|------------------------------------|
| 631        | 465.4                                    | 281.6                         | 696.1                         | 773.9                          | 0   | 1  | 339                           | 2  | 12                                       | 17                                       | 49   | 0   | 2   | 1                                 | 398,400  | 166,170                     | 110,260                        | 56,600                       | 253.3                 | 0  | 333,030                            |
| 632        | 487.0                                    | 292.0                         | 671.5<br>655.5                | 807.2<br>751.5                 | 0   | 1  | 337<br>326                    | 0  | 12<br>12                                 | 15<br>14                                 | 39<br>38                                     | 0   | 1   | 1                                 | 423,050  | 147,780                     | 110,820                        | 63,060                       | 268.0<br>269.5        | 0  | 321,660                            |
| 633<br>634 | 465.7<br>682.3                           | 281.7<br>410.0                | 560.9                         | 751.5<br>859.0                 | 0   | 1  | 340                           | 2  | 11                                       | 15                                       | 45   | 0   | 2   | 3                                 | 429,690<br>347,780                               | 155,380<br>115,230          | 91,760<br>146,800              | 66,980<br>56,260             | 209.5                 | 0  | 314,120<br>318,290                 |
| 635        | 665.9                                    | 393.6                         | 592.6                         | 879.2                          | 0   | 1  | 348                           | 2  | 10                                       | 16                                       | 44   | 0   | 1   | 3                                 | 352,240  | 115,230                     | 146,800                        | 56,260                       | 227.1                 | 0  | 318,290                            |
| 636        | 652.4                                    | 377.4                         | 591.7                         | 881.6                          | 0   | 1  | 342                           | 1  | 9  | 14                                       | 36   | 0   | 1   | 3                                 | 348,860  | 115,230                     | 146,800                        | 56,260                       | 227.4                 | 0  | 318,290                            |
| 637        | 673.9                                    | 374.2                         | 597.5                         | 887.8                          | 0   | 1  | 352                           | 1  | 9  | 14                                       | 36   | 0   | 1   | 3                                 | 348,590  | 115,230                     | 146,800                        | 56,260                       | 220.7                 | 0  | 318,290                            |
| 638        | 708.5                                    | 381.5                         | 580.0                         | 875.2                          | 0   | 1  | 345                           | 2  | 14                                       | 16                                       | 52   | 1   | 1   | 3                                 | 329,290  | 115,230                     | 146,800                        | 56,260                       | 223.3                 | 0  | 318,290                            |
| 639        | 419.5                                    | 278.3                         | 670.3                         | 799.6                          | 0   | 0  | 320                           | 5  | 12                                       | 18                                       | 62   | 0   | 2   | 3                                 | 392,330  | 142,120                     | 130,470                        | 42,830                       | 226.6                 | 0  | 315,420                            |
| 640<br>641 | 403.1<br>389.5                           | 261.9<br>245.6                | 701.9<br>701.0                | 819.7<br>822.1                 | 0   | 0  | 328<br>322                    | 5<br>4                                   | 11<br>10                                 | 19<br>17                                 | 61<br>53                                     | 0   | 1   | 3                                 | 396,790<br>393,410                               | 142,120<br>142,120          | 130,470<br>130,470             | 42,830<br>42,830             | 229.4<br>229.7        | 0  | 315,420<br>315,420                 |
| 642        | 411.1                                    | 243.0                         | 701.0                         | 828.3                          | 0   | 0  | 332                           | 4  | 10                                       | 17                                       | 53   | 0   | 1   | 3                                 | 393,410  | 142,120                     | 130,470                        | 42,830                       | 223.0                 | 0  | 315,420                            |
| 643        | 445.7                                    | 249.8                         | 689.3                         | 815.7                          | 0   | 0  | 325                           | 5  | 15                                       | 19                                       | 69   | 1   | 1   | 3                                 | 373,830  | 142,110                     | 130,470                        | 42,830                       | 225.6                 | 0  | 315,410                            |
| 644        | 464.5                                    | 247.8                         | 725.5                         | 759.7                          | 0   | 0  | 329                           | 1  | 19                                       | 16                                       | 58   | 0   | 1   | 4                                 | 407,270  | 131,290                     | 128,090                        | 42,830                       | 248.9                 | 0  | 302,210                            |
| 645        | 468.4                                    | 303.0                         | 718.7                         | 783.8                          | 0   | 0  | 322                           | 4  | 11                                       | 17                                       | 55   | 0   | 3   | 1                                 | 380,860  | 149,020                     | 133,580                        | 42,830                       | 233.8                 | 0  | 325,430                            |
| 646        | 452.0                                    | 286.6                         | 750.3                         | 804.0                          | 0   | 0  | 330                           | 4  | 10                                       | 18                                       | 54   | 0   | 2   | 1                                 | 385,320  | 149,020                     | 133,580                        | 42,830                       | 236.6                 | 0  | 325,430                            |
| 647        | 438.4                                    | 270.3                         | 749.4                         | 806.4                          | 0   | 0  | 324                           | 3  | 9  | 16                                       | 46   | 0   | 2   | 1                                 | 381,940  | 149,020                     | 133,580                        | 42,830                       | 236.9                 | 0  | 325,430                            |
| 648<br>649 | 460.0<br>494.6                           | 267.2<br>274.5                | 755.3<br>737.8                | 812.5<br>800.0                 | 0   | 0  | 334<br>327                    | 3  | 14                                       | 16<br>18                                 | 46<br>62                                     | 0   | 2   | 1                                 | 381,670<br>362,370                               | 149,020<br>149,010          | 133,580<br>133,580             | 42,830<br>42,830             | 230.2<br>232.8        | 0  | 325,430<br>325,420                 |
| 650        | 513.4                                    | 272.5                         | 774.0                         | 744.0                          | 0   | 0  | 331                           | 0  | 18                                       | 15                                       | 51   | 0   | 2   | 2                                 | 395,810  | 138,190                     | 131,200                        | 42,830                       | 256.1                 | 0  | 312,220                            |
| 651        | 486.7                                    | 273.0                         | 762.7                         | 753.5                          | 0   | 1  | 326                           | 2  | 12                                       | 11                                       | 43   | 0   | 2   | 2                                 | 396,970  | 162,190                     | 114,110                        | 42,830                       | 264.3                 | 0  | 319,130                            |
| 652        | 508.3                                    | 283.4                         | 738.1                         | 786.8                          | 0   | 1  | 324                           | 0  | 12                                       | 9  | 33   | 0   | 1   | 2                                 | 421,620  | 143,800                     | 114,660                        | 49,290                       | 279.0                 | 0  | 307,750                            |
| 653        | 613.3                                    | 375.0                         | 519.4                         | 885.7                          | 0   | 1  | 329                           | 2  | 10                                       | 15                                       | 43   | 0   | 2   | 2                                 | 380,920  | 118,780                     | 135,030                        | 68,950                       | 205.7                 | 0  | 322,760                            |
| 654        | 596.9                                    | 358.6                         | 551.0                         | 905.8                          | 0   | 1  | 337                           | 2  | 9  | 16                                       | 42   | 0   | 1   | 2                                 | 385,380  | 118,780                     | 135,030                        | 68,950                       | 208.4                 | 0  | 322,760                            |
| 655<br>656 | 583.3<br>604.9                           | 342.3<br>339.2                | 550.1<br>556.0                | 908.2<br>914.4                 | 0   | 1 1  | 331<br>341                    | 1  | 8  | 14<br>14                                 | 34<br>34                                     | 0   | 1   | 2                                 | 382,000<br>381,720                               | 118,780<br>118,780          | 135,030<br>135,030             | 68,950<br>68,950             | 208.7<br>202.0        | 0  | 322,760<br>322,760                 |
| 657        | 639.4                                    | 346.4                         | 538.4                         | 901.8                          | 0   | 1  | 334                           | 2  | 13                                       | 16                                       | 50   | 1   | 1   | 2                                 | 362,420  | 118,770                     | 135,030                        | 68,950                       | 202.0                 | 0  | 322,750                            |
| 658        | 350.4                                    | 243.2                         | 628.7                         | 826.2                          | 0   | 0  | 309                           | 5  | 11                                       | 18                                       | 60   | 0   | 2   | 2                                 | 425,460  | 145,660                     | 118,690                        | 55,520                       | 208.0                 | 0  | 319,870                            |
| 659        | 334.1                                    | 226.9                         | 660.4                         | 846.3                          | 0   | 0  | 317                           | 5  | 10                                       | 19                                       | 59   | 0   | 1   | 2                                 | 429,920  | 145,660                     | 118,690                        | 55,520                       | 210.8                 | 0  | 319,870                            |
| 660        | 320.5                                    | 210.6                         | 659.5                         | 848.8                          | 0   | 0  | 311                           | 4  | 9  | 17                                       | 51   | 0   | 1   | 2                                 | 426,540  | 145,660                     | 118,690                        | 55,520                       | 211.1                 | 0  | 319,870                            |
| 661        | 342.1                                    | 207.5                         | 665.3                         | 854.9                          | 0   | 0  | 321                           | 4  | 9  | 17                                       | 51   | 0   | 1   | 2                                 | 426,270  | 145,660                     | 118,690                        | 55,520                       | 204.4                 | 0  | 319,870                            |
| 662        | 376.6                                    | 214.7                         | 647.8                         | 842.4                          | 0   | 0  | 314                           | 5  | 14                                       | 19                                       | 67   | 0   | 1   | 2                                 | 406,970  | 145,650                     | 118,690                        | 55,520                       | 206.9                 | 0  | 319,860                            |
| 663<br>664 | 395.5<br>399.3                           | 212.8<br>267.9                | 684.0<br>677.2                | 786.4<br>810.5                 | 0   | 0  | 318<br>311                    | 4  | 18<br>10                                 | 16<br>17                                 | 56<br>53                                     | 0   | 3   | 3                                 | 440,410<br>414,000                               | 134,830<br>152,560          | 116,310<br>121,800             | 55,520<br>55,520             | 230.2<br>215.2        | 0  | 306,660<br>329,880                 |
| 665        | 383.0                                    | 251.6                         | 708.8                         | 830.6                          | 0   | 0  | 319                           | 4  | 9  | 18                                       | 52   | 0   | 2   | 0                                 | 418,460  | 152,560                     | 121,800                        | 55,520                       | 218.0                 | 0  | 329,880                            |
| 666        | 369.4                                    | 235.3                         | 707.9                         | 833.0                          | 0   | 0  | 313                           | 3  | 8  | 16                                       | 44   | 0   | 2   | 0                                 | 415,080  | 152,560                     | 121,800                        | 55,520                       | 218.3                 | 0  | 329,880                            |
| 667        | 391.0                                    | 232.2                         | 713.8                         | 839.2                          | 0   | 0  | 323                           | 3  | 8  | 16                                       | 44   | 0   | 2   | 0                                 | 414,800  | 152,560                     | 121,800                        | 55,520                       | 211.6                 | 0  | 329,880                            |
| 668        | 425.5                                    | 239.4                         | 696.2                         | 826.6                          | 0   | 0  | 316                           | 4  | 13                                       | 18                                       | 60   | 1   | 2   | 0                                 | 395,500  | 152,550                     | 121,800                        | 55,520                       | 214.1                 | 0  | 329,870                            |
| 669        | 444.4                                    | 237.5                         | 732.5                         | 770.6                          | 0   | 0  | 320                           | 0  | 17                                       | 15                                       | 49   | 0   | 2   | 1                                 | 428,940  | 141,730                     | 119,420                        | 55,520                       | 237.4                 | 0  | 316,670                            |
| 670<br>671 | 417.7<br>439.3                           | 238.0<br>248.4                | 721.2<br>696.5                | 780.1<br>813.5                 | 0   | 1 1  | 315<br>313                    | 0  | 11<br>11                                 | 11<br>9                                  | 41<br>31                                     | 0   | 1   | 1                                 | 430,100<br>454,750                               | 165,730<br>147,340          | 102,330<br>102,890             | 55,520<br>61,980             | 245.7<br>260.3        | 0  | 323,580<br>312,210                 |
| 672        | 610.7                                    | 373.7                         | 517.2                         | 879.2                          | 0   | 1  | 327                           | 2  | 10                                       | 15                                       | 43   | 0   | 2   | 2                                 | 382,310  | 118,780                     | 135,030                        | 66,130                       | 205.7                 | 0  | 319,940                            |
| 673        | 594.3                                    | 357.3                         | 548.8                         | 899.3                          | 0   | 1  | 335                           | 2  | 9  | 16                                       | 42   | 0   | 1   | 2                                 | 386,770  | 118,780                     | 135,030                        | 66,130                       | 208.4                 | 0  | 319,940                            |
| 674        | 580.7                                    | 341.0                         | 547.9                         | 901.7                          | 0   | 1  | 329                           | 1  | 8  | 14                                       | 34   | 0   | 1   | 2                                 | 383,390  | 118,780                     | 135,030                        | 66,130                       | 208.7                 | 0  | 319,940                            |
| 675        | 602.3                                    | 337.9                         | 553.8                         | 907.9                          | 0   | 1  | 339                           | 1  | 8  | 14                                       | 34   | 0   | 1   | 2                                 | 383,110  | 118,780                     | 135,030                        | 66,130                       | 202.0                 | 0  | 319,940                            |
| 676        | 636.9                                    | 345.2                         | 536.2                         | 895.3                          | 0   | 1  | 332                           | 2  | 13                                       | 16                                       | 50   | 1   | 1   | 2                                 | 363,810  | 118,770                     | 135,030                        | 66,130                       | 204.6                 | 0  | 319,930                            |
| 677<br>678 | 347.8<br>331.5                           | 241.9<br>225.6                | 626.5<br>658.2                | 819.7<br>839.8                 | 0   | 0  | 307<br>315                    | 5  | 11<br>10                                 | 18<br>19                                 | 60<br>59                                     | 0   | 1   | 2                                 | 426,850<br>431,310                               | 145,660<br>145,660          | 118,690<br>118,690             | 52,710<br>52,710             | 208.0<br>210.8        | 0  | 317,060<br>317,060                 |
| 679        | 317.9                                    | 209.3                         | 657.3                         | 842.2                          | 0   | 0  | 309                           | 4  | 9  | 17                                       | 59   | 0   | 1   | 2                                 | 431,310  | 145,660                     | 118,690                        | 52,710                       | 210.8                 | 0  | 317,060                            |
| 680        | 339.5                                    | 206.2                         | 663.1                         | 848.4                          | 0   | 0  | 319                           | 4  | 9  | 17                                       | 51   | 0   | 1   | 2                                 | 427,660  | 145,660                     | 118,690                        | 52,710                       | 204.4                 | 0  | 317,060                            |
| 681        | 374.0                                    | 213.4                         | 645.6                         | 835.8                          | 0   | 0  | 312                           | 5  | 14                                       | 19                                       | 67   | 1   | 1   | 2                                 | 408,360  | 145,650                     | 118,690                        | 52,710                       | 206.9                 | 0  | 317,050                            |
| 682        | 392.9                                    | 211.5                         | 681.8                         | 779.8                          | 0   | 0  | 316                           | 1  | 18                                       | 16                                       | 56   | 0   | 1   | 3                                 | 441,800  | 134,830                     | 116,310                        | 52,710                       | 230.2                 | 0  | 303,850                            |
| 683        | 396.7                                    | 266.6                         | 675.0                         | 803.9                          | 0   | 0  | 309                           | 4  | 10                                       | 17                                       | 53   | 0   | 3   | 0                                 | 415,390  | 152,560                     | 121,800                        | 52,710                       | 215.2                 | 0  | 327,070                            |
| 684        | 380.4<br>366.8                           | 250.3                         | 706.6                         | 824.1                          | 0   | 0  | 317                           | 4  | 9  | 18                                       | 52<br>44                                     | 0   | 2   | 0                                 | 419,850  | 152,560                     | 121,800                        | 52,710<br>52,710             | 218.0                 | 0  | 327,070                            |
| 685<br>686 | 388.4                                    | 234.0<br>230.9                | 705.7<br>711.6                | 826.5<br>832.6                 | 0   | 0  | 311<br>321                    | 3  | 8  | 16<br>16                                 | 44   | 0   | 2   | 0                                 | 416,470<br>416,190                               | 152,560<br>152,560          | 121,800<br>121,800             | 52,710                       | 218.3<br>211.6        | 0  | 327,070<br>327,070                 |
| 687        | 422.9                                    | 238.1                         | 694.0                         | 820.1                          | 0   | 0  | 314                           | 4  | 13                                       | 18                                       | 60   | 1   | 2   | 0                                 | 396,890  | 152,550                     | 121,800                        | 52,710                       | 211.0                 | 0  | 327,070                            |
| 688        | 441.8                                    | 236.2                         | 730.3                         | 764.1                          | 0   | 0  | 318                           | 0  | 17                                       | 15                                       | 49   | 0   | 2   | 1                                 | 430,340  | 141,730                     | 119,420                        | 52,710                       | 237.4                 | 0  | 313,860                            |
| 689        | 415.1                                    | 236.7                         | 719.0                         | 773.6                          | 0   | 1  | 313                           | 2  | 11                                       | 11                                       | 41   | 0   | 2   | 1                                 | 431,490  | 165,730                     | 102,330                        | 52,710                       | 245.7                 | 0  | 320,770                            |
| 690        | 436.8                                    | 247.1                         | 694.3                         | 806.9                          | 0   | 1  | 311                           | 0  | 11                                       | 9  | 31   | 0   | 1   | 1                                 | 456,140  | 147,340                     | 102,890                        | 59,170                       | 260.3                 | 0  | 309,400                            |
| 691        | 656.8                                    | 415.5                         | 522.7                         | 878.7                          | 0   | 1  | 356                           | 2  | 9  | 18                                       | 44   | 0   | 2   | 2                                 | 351,390  | 113,130                     | 153,400                        | 71,360                       | 213.7                 | 0  | 337,890                            |
| 692        | 640.5                                    | 399.2                         | 554.3                         | 898.9                          | 0   | 1  | 364                           | 2  | 7  | 19                                       | 43   | 0   | 1   | 2                                 | 355,850  | 113,130                     | 153,400                        | 71,360                       | 216.4                 | 0  | 337,890                            |
| 693        | 626.9                                    | 382.9                         | 553.4                         | 901.3                          | 0   | 1  | 358                           | 1  | /  | 17                                       | 35   | 0   | 1   | 2                                 | 352,470  | 113,130                     | 153,400                        | 71,360                       | 216.7                 | 0  | 337,890                            |

|            | Sensitive<br>Species<br>Score | Woodland in<br>ROW | Cropland in<br>ROW | Rangeland in<br>ROW | NRHP Sites<br>within 1/4<br>Mile | Archaeological<br>Sites within<br>ROW | Parcels<br>Crossed | Residences<br>within 150 feet | Residences<br>within 300 feet | Residences<br>within 500 feet | Residential<br>Proximity<br>Score | Businesses<br>within 300<br>feet | Public<br>Facilities<br>within<br>500 feet | Outbuildings<br>in ROW | Length Not<br>Along Parcel<br>Boundary | Low Karst<br>Risk  | Medium<br>Karst Risk | High Karst<br>Risk | Floodplain     | Outbuildings in<br>ROW in Eastern<br>Spotted Skunk<br>Habitat | Total<br>Length<br>Karst |
|------------|-------------------------------|--------------------|--------------------|---------------------|----------------------------------|---------------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|--|------------------------|--|--------------------|----------------------|--------------------|----------------|---|--------------------------|
| Route      | (score)                       | (acres)            | (acres)            | (acres)             | (count)                          | (count)                               | (count)            | (count)                       | (count)                       | (count)                       | (score)                           | (count)                          | (count)                                    | (count)                | (feet)                                 | (feet)             | (feet)               | (feet)             | (acres)        | (count)   | (feet)                   |
| 694        | 648.5                         | 379.8              | 559.3              | 907.4               | 0                                | 1                                     | 368                | 1                             | 7                             | 17                            | 35                                | 0                                | 1  | 2                      | 352,190                                | 113,130            | 153,400              | 71,360             | 210.1          | 0   | 337,890                  |
| 695        | 683.0                         | 387.0              | 541.7              | 894.9               | 0                                | 1                                     | 361                | 2                             | 12                            | 19                            | 51                                | 1                                | 1  | 2                      | 332,900                                | 113,120            | 153,400              | 71,360             | 212.6          | 0   | 337,880                  |
| 696        | 393.9                         | 283.8              | 632.0              | 819.2               | 0                                | 0                                     | 336                | 5                             | 10                            | 21                            | 61                                | 0                                | 2  | 2                      | 395,930                                | 140,010            | 137,070              | 57,940             | 216.0          | 0   | 335,020                  |
| 697        | 377.5                         | 267.4              | 663.7              | 839.4               | 0                                | 0                                     | 344                | 5                             | 9                             | 22                            | 60                                | 0                                | 1  | 2                      | 400,390                                | 140,010            | 137,070              | 57,940             | 218.8          | 0   | 335,020                  |
| 698        | 364.0                         | 251.2              | 662.8              | 841.8               | 0                                | 0                                     | 338                | 4                             | 8                             | 20                            | 52                                | 0                                | 1  | 2                      | 397,010                                | 140,010            | 137,070              | 57,940             | 219.1          | 0   | 335,020                  |
| 699        | 385.7                         | 248.1              | 668.6              | 848.0               | 0                                | 0                                     | 348                | 4                             | 8                             | 20                            | 52                                | 0                                | 1  | 2                      | 396,740                                | 140,010            | 137,070              | 57,940             | 212.4          | 0   | 335,020                  |
| 700        | 420.1                         | 255.3              | 651.1              | 835.4               | 0                                | 0                                     | 341                | 5                             | 13                            | 22                            | 68                                | 1                                | 1  | 2                      | 377,440                                | 140,010            | 137,070              | 57,940             | 214.9          | 0   | 335,020                  |
| 701        | 439.0                         | 253.3              | 687.3              | 779.4               | 0                                | 0                                     | 345                | 1                             | 17                            | 19                            | 57                                | 0                                | 1  | 3                      | 410,880                                | 129,190            | 134,690              | 57,940             | 238.2          | 0   | 321,820                  |
| 702        | 442.8                         | 308.5              | 680.5              | 803.5               | 0                                | 0                                     | 338                | 4                             | 9                             | 20                            | 54                                | 0                                | 3  | 0                      | 384,470                                | 146,910            | 140,180              | 57,940             | 223.2          | 0   | 345,030                  |
| 703        | 426.4                         | 292.1              | 712.1              | 823.6               | 0                                | 0                                     | 346                | 4                             | 8                             | 21                            | 53                                | 0                                | 2  | 0                      | 388,930                                | 146,910            | 140,180              | 57,940             | 226.0          | 0   | 345,030                  |
| 704        | 412.9                         | 275.9              | 711.2              | 826.0               | 0                                | 0                                     | 340                | 3                             | 7                             | 19                            | 45                                | 0                                | 2  | 0                      | 385,550                                | 146,910            | 140,180              | 57,940             | 226.3          | 0   | 345,030                  |
| 705        | 434.6                         | 272.8              | 717.1              | 832.2               | 0                                | 0                                     | 350                | 3                             | 7                             | 19                            | 45                                | 0                                | 2  | 0                      | 385,270                                | 146,910            | 140,180              | 57,940             | 219.6          | 0   | 345,030                  |
| 706        | 469.0                         | 280.0              | 699.5              | 819.6               | 0                                | 0                                     | 343                | 4                             | 12                            | 21                            | 61                                | 1                                | 2  | 0                      | 365,980                                | 146,900            | 140,180              | 57,940             | 222.1          | 0   | 345,020                  |
| 707        | 487.9                         | 278.0              | 735.8              | 763.7               | 0                                | 0                                     | 347                | 0                             | 16                            | 18                            | 50                                | 0                                | 2  | 1                      | 399,420                                | 136,090            | 137,800              | 57,940             | 245.4          | 0   | 331,830                  |
| 708        | 461.2                         | 278.5              | 724.5              | 773.2               | 0                                | 1                                     | 342                | 2                             | 10                            | 14                            | 42                                | 0                                | 2  | 1                      | 400,580                                | 160,080            | 120,710              | 57,940             | 253.7          | 0   | 338,730                  |
| 709        | 482.9                         | 289.0              | 699.8              | 806.5               | 0                                | 1                                     | 340                | 0                             | 10                            | 12                            | 32                                | 0                                | 1  | 1                      | 425,230                                | 141,700            | 121,260              | 64,390             | 268.3          | 0   | 327,350                  |
| 710        | 654.2                         | 414.2              | 520.5              | 872.2               | 0                                | 1                                     | 354                | 2                             | 9                             | 18                            | 44                                | 0                                | 2  | 2                      | 352,780                                | 113,130            | 153,400              | 68,550             | 213.7          | 0   | 335,080                  |
| 711        | 637.9                         | 397.9              | 552.1              | 892.3               | 0                                | 1                                     | 362                | 2                             | 8                             | 19                            | 43                                | 0                                | 1  | 2                      | 357,240                                | 113,130            | 153,400              | 68,550             | 216.4          | 0   | 335,080                  |
| 712        | 624.3                         | 381.6              | 551.2              | 894.7               | 0                                | 1                                     | 356                | 1                             | 7                             | 17                            | 35                                | 0                                | 1  | 2                      | 353,860                                | 113,130            | 153,400              | 68,550             | 216.7          | 0   | 335,080                  |
| 713<br>714 | 645.9                         | 378.5              | 557.1              | 900.9               | 0                                | 1                                     | 366<br>359         | 2                             | 12                            | 17<br>19                      | 35                                | 0                                | 1  | 2                      | 353,580                                | 113,130            | 153,400              | 68,550             | 210.1          | 0   | 335,080                  |
|            | 680.4                         | 385.7<br>282.5     | 539.5              | 888.3               | 0                                | 0                                     | 334                | 5                             | 10                            | 21                            | 51                                | 0                                | 2  | 2                      | 334,290                                | 113,120            | 153,400              | 68,550             | 212.6          | 0   | 335,070                  |
| 715        | 391.3<br>374.9                |                    | 629.8<br>661.5     | 812.7               | 0                                | 0                                     | 334                | 5                             | 9                             | 22                            | 61<br>60                          |                                  | 1  | 2                      | 397,320                                | 140,010<br>140,010 | 137,070<br>137,070   | 55,120<br>55,120   | 216.0<br>218.8 | 0   | 332,200<br>332,200       |
| 716<br>717 | 361.5                         | 266.1<br>249.9     | 660.6              | 832.8<br>835.2      | 0                                | 0                                     | 336                | 4                             | 8                             | 20                            | 52                                | 0                                | 1  | 2                      | 401,790<br>398,400                     | 140,010            | 137,070              | 55,120             | 218.8          | 0   | 332,200                  |
| 717        | 383.1                         | 249.9              | 666.4              | 841.4               | 0                                | 0                                     | 346                | 4                             | 8                             | 20                            | 52                                | 0                                | 1  | 2                      | 398,400                                | 140,010            | 137,070              | 55,120             | 219.1          | 0   | 332,200                  |
| 719        | 417.6                         | 254.0              | 648.9              | 828.9               | 0                                | 0                                     | 339                | 5                             | 13                            | 22                            | 68                                | 1                                | 1  | 2                      | 378,830                                | 140,010            | 137,070              | 55,120             | 214.9          | 0   | 332,200                  |
| 720        | 436.4                         | 252.0              | 685.1              | 772.9               | 0                                | 0                                     | 343                | 1                             | 17                            | 19                            | 57                                | 0                                | 1  | 3                      | 412,270                                | 129,190            | 134,690              | 55,120             | 238.2          | 0   | 319,000                  |
| 720        | 436.4                         | 307.2              | 678.3              | 772.9               | 0                                | 0                                     | 343                | 4                             | 9                             | 20                            | 57                                | 0                                | 3  | 0                      | 385,860                                | 146,910            | 140,180              | 55,120             | 238.2          | 0   | 342,210                  |
| 721        | 423.8                         | 290.8              | 709.9              | 817.1               | 0                                | 0                                     | 344                | 4                             | 8                             | 21                            | 53                                | 0                                | 2  | 0                      | 390,320                                | 146,910            | 140,180              | 55,120             | 226.0          | 0   | 342,210                  |
| 723        | 410.4                         | 274.6              | 709.9              | 819.5               | 0                                | 0                                     | 338                | 3                             | 7                             | 19                            | 45                                | 0                                | 2  | 0                      | 386,940                                | 146,910            | 140,180              | 55,120             | 226.0          | 0   | 342,210                  |
| 724        | 432.0                         | 274.0              | 714.9              | 825.7               | 0                                | 0                                     | 348                | 3                             | 7                             | 19                            | 45                                | 0                                | 2  | 0                      | 386,670                                | 146,910            | 140,180              | 55,120             | 219.6          | 0   | 342,210                  |
| 725        | 466.5                         | 271.3              | 697.3              | 813.1               | 0                                | 0                                     | 341                | 4                             | 12                            | 21                            | 61                                | 1                                | 2  | 0                      | 367,370                                | 146,900            | 140,180              | 55,120             | 222.1          | 0   | 342,210                  |
| 726        | 485.3                         | 276.7              | 733.6              | 757.1               | 0                                | 0                                     | 345                | 0                             | 16                            | 18                            | 50                                | 0                                | 2  | 1                      | 400,810                                | 136,090            | 137,800              | 55,120             | 245.4          | 0   | 329,010                  |
| 727        | 458.6                         | 277.2              | 722.3              | 766.6               | 0                                | 1                                     | 340                | 2                             | 10                            | 14                            | 42                                | 0                                | 2  | 1                      | 400,810                                | 160,080            | 120,710              | 55,120             | 253.7          | 0   | 335,910                  |
| 727        | 480.3                         | 287.7              | 697.6              | 800.0               | 0                                | 1                                     | 338                | 0                             | 10                            | 12                            | 32                                | 0                                | 1  | 1                      | 426,620                                | 141,700            | 121,260              | 61,580             | 268.3          | 0   | 324,540                  |
| 729        | 458.9                         | 277.3              | 681.6              | 744.2               | 0                                | 1                                     | 327                | 0                             | 10                            | 11                            | 31                                | 0                                | 1  | 1                      | 433.260                                | 149,300            | 102,210              | 65,500             | 269.8          | 0   | 317,010                  |
| , 23       | 450.5                         | 2,7.5              | 551.0              | , 17.6              |                                  | - 1                                   | 52,                |                               | 10                            |                               | . 51                              |                                  |  |                        | 133,200                                | 1-10,000           | 102,210              | 03,300             |                |   | 317,010                  |
|            | 932.3                         | 459.4              | 814.9              | 1053.5              | 0                                | 2                                     | 368                | 5                             | 24                            | 28                            | 84                                | 1                                | 3  | 6                      | 472,280                                | 173,400            | 153,400              | 72,840             | 292            | 0   | 347,790                  |
|            | 489.7                         | 272.7              | 661.3              | 827.1               | 0.0                              | 0.8                                   | 325.3              | 2.7                           | 13.4                          | 19.4                          | 57.0                              | 0.2                              | 0.9  | 1.8                    | 386,360.6                              | 139,760.8          | 121,529.9            | 56,925.8           | 225.6          | 0.0   | 318,216.4                |
|            | 289.7                         | 163.3              | 490.2              | 696.2               | 0                                | 0                                     | 293                | 0                             | 7                             | 8                             | 31                                | 0                                | 0.5  | 0                      | 209.100                                | 111.290            | 82.530               | 42.780             | 191            | 0.0   | 282,360                  |
|            | 126.6                         | 62.1               | 72.8               | 61.4                | 0.0                              | 0.7                                   | 15.6               | 1.6                           | 3.6                           | 3.8                           | 10.8                              | 0.4                              | 0.8  | 1.3                    | 44,892.5                               | 14,919.4           | 14,634.4             | 8,048.6            | 19.1           | 0.0   | 13,062.3                 |

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**APPENDIX B - WEIGHTED SCORES** 

# Appendix B - Sorted, Weighted Routes Wolf Creek - Blackberry

| Weights    | 6              | 4              | 8                | Д              | 2              | 3            | 5           | 9                | 3           | 2              | 10          | 1                 | 1            | 3          | 1              |                  |
|------------|----------------|----------------|------------------|----------------|----------------|--------------|-------------|------------------|-------------|----------------|-------------|-------------------|--------------|------------|----------------|------------------|
| Weights    |                |                |                  | -              |                |              | 3           |                  |             |                | 10          |                   | _            |            |                |                  |
|            |                |                |                  |                |                |              |             |                  |             |                |             |                   |              |            |                |                  |
|            |                | Angles         | Length Not       | Length         |                |              |             |                  |             |                |             |                   |              |            |                |                  |
|            |                | Over 30        | Along Existing   | Through        |                |              |             | Sensitive        |             | Archaeological | Residential |                   | Length Not   |            | Total          |                  |
|            | Total          | Degrees        | Transmission     | Previously     | Transmission   | Stream       | Wetlands in | Species          | Cropland in | Sites within   | Proximity   | Public Facilities | Along Parcel | Floodplain | Length         |                  |
| Route      | Length         | (count)        | Line             | Mined Area     | Line Crossings | Crossings    | ROW         | Score            | ROW         | ROW            | Score       | within 500 feet   | Boundary     | in ROW     | Karst          | Total            |
| 65         | -9.31          | -3.98          | -12.49           | -0.15          | -2.82          | 0.83         | -5.67       | -12.45           | -0.42       | -2.30          |             | -1.22             | 1.06         | -3.96      | -0.83          | -52.83           |
| 68         | -11.70         | -7.74          | -16.24           | -0.09          | -0.17          | -0.41        |             | -7.12            |             | -2.30          |             | -1.22             | 1.37         |            | -1.85          | -52.52           |
| 76         | -7.18          | -5.23          | -4.10            | -10.50         | 1.16           | -1.45        | -7.32       | -4.00            | 1.11        | 0.59           | -17.60      | -1.22             | 1.69         | 3.78       | -1.42          | -51.70           |
| 75         | -8.86          | -6.49          | 1.23             | -10.50         | 1.16           | -5.19        | -13.38      | -5.54            | 2.13        | 0.59           | -8.35       | 0.07              | 1.14         | 1.47       | -0.55          | -51.08           |
| 57         | -6.50          | -3.98          | -3.93            | -10.50         | 1.16           | -1.45        |             | -3.82            |             | 0.59           |             |                   | 1.66         |            | -1.21          | -48.81           |
| 66         | -8.59          | -3.98          | -12.04           | -0.10          | -0.17          | -0.21        |             | -10.92           | -0.18       | -2.30          |             | -1.22             | 1.05         |            | -0.83          | -48.73           |
| 372        | -8.69          | -3.98          | -13.06           | -0.15          | -2.82          | 1.46         |             | -14.21           | 0.46        | 0.59           |             | -1.22             | 1.29         |            | -0.93          | -47.99           |
| 375        | -11.08         | -7.74          | -16.81           | -0.09          | -0.17          | 0.21         |             | -8.89            |             | 0.59           |             | -1.22             | 1.59         |            | -1.94          | -47.68           |
| 46         | -8.64          | -0.21          | -12.32           | -0.15          | -2.82          | 0.83         |             | -12.27           | -0.33       | -2.30          |             |                   | 1.03         |            | -0.62          | -47.42           |
| 49         | -11.03         | -3.98          | -16.07           | -0.09          | -0.17          | -0.41        |             | -6.94            |             | -2.30          |             | -1.22             |              |            | -1.63          | -47.12           |
| 383        | -6.56          | -5.23          | -4.66            | -10.50         | 1.16           | -0.83        |             | -5.77            |             | 3.48           |             |                   |              |            |                | -46.87           |
| 115        | -9.52          | -5.23          | 5.65             | -10.50         | -1.49          | -3.74        |             | -2.27            |             | 0.59           |             | -1.22             | 1.15         |            | -0.67          | -46.54           |
| 382        | -8.24          | -6.49          | 0.67             | -10.50         | 1.16           | -4.57        |             | -7.31            | 3.00        | 3.48           |             | 0.07              | 1.36         |            | -0.64          | -46.25           |
| 56         | -8.18          | -2.72          | 1.40             | -10.50         | 1.16           | -5.19        |             | -5.36            |             | 0.59           |             |                   | 1.11         |            | -0.34          | -45.67           |
| 422        | -9.44          | -6.49          | 4.74             | -10.50         | -1.49          | -3.32        |             | -4.19            |             | 3.48           |             |                   | 1.40         |            | -0.93          | -45.24           |
| 276        | -10.01         | -6.49          | -13.88           | -0.15          | -2.82          | 1.67         |             | -13.89           | -0.57       | 0.59           |             |                   | 1.24         |            | -1.32          | -45.22           |
| 279        | -12.40         | -10.26         | -17.63           | -0.09          | -0.17          | 0.42         |             | -8.57            | 0.44        | 0.59           |             |                   | 1.55         |            | -2.33          | -44.81           |
| 287        | -7.87          | -7.74          | -5.49            | -10.50         | 1.16           | -0.62        |             | -5.45            | 0.95        | 3.48           |             |                   | 1.87         |            | -1.91          | -43.99           |
| 364        | -5.88          | -3.98          | -4.49            | -10.50         | 1.16           | -0.83        |             | -5.59            |             | 3.48           |             | ļ                 | 1.88         |            |                | -43.98           |
| 373        | -7.97          | -3.98          | -12.60           | -0.10          | -0.17          | 0.42         |             | -12.69           |             | 0.59           |             | -1.22             | 1.28         |            | -0.93          | -43.90           |
| 286        | -9.55          | -9.00          | -0.16            | -10.50         | 1.16           | -4.36        |             | -6.99            |             | 3.48           |             | 0.07              | 1.32         |            | -1.04          | -43.36           |
| 47         | -7.92          | -0.21          | -11.87           | -0.10          | -0.17          | -0.21        |             | -10.73           | -0.08       | -2.30          |             |                   |              |            | -0.62          | -43.32           |
| 353        | -8.01          | -0.21          | -12.88           | -0.15          | -2.82          | 1.46         |             | -14.04           |             | 0.59           |             | -1.22             |              |            | -0.71          | -42.59           |
| 356        | -10.41         | -3.98          | -16.63           | -0.09          | -0.17          | 0.21         |             | -8.71            | 1.56        | 0.59           |             | -1.22             |              |            | -1.72          | -42.27           |
| 679        | -5.49          | 2.30           | -13.67           | -0.15          | -1.49          | 1.87         |             | -12.21           | -0.16       | -2.30          |             |                   | 0.93         |            | -0.09          | -41.62           |
| 682        | -7.88          | -1.46          | -17.43           | -0.09          | 1.16           | 0.63         |             | -6.88            | 0.84        | -2.30          | -0.96       |                   | 1.23         |            | -1.10          | -41.21           |
| 268        | -7.20          | -6.49          | -5.32            | -10.50         | 1.16           | -0.62        |             | -5.27            |             | 3.48           |             |                   | 1.84         |            | -1.69          | -41.10           |
| 277        | -9.29          | -6.49          | -13.43           |                |                | 0.63         |             |                  |             | 0.59           |             | ļ                 |              |            |                | -41.01           |
| 363        | -7.56          | -2.72          | 0.84             | -10.50         | 1.16           | -4.57        |             | -7.13            |             | 3.48           |             |                   |              |            |                | -40.84           |
| 690        | -3.36          | 1.05           | -5.28            |                |                | -0.41        |             |                  |             | 0.59           |             |                   |              |            |                | -40.40           |
| 257        | -9.33<br>5.04  | -2.72          | -13.71           | -0.15          | -2.82          | 1.67         |             | -13.72           |             | 0.59           |             |                   |              |            | -1.11          | -39.82           |
| 689        | -5.04          | -0.21<br>6.40  | 0.05             | -10.50         | 2.49           | -4.15        |             | -5.30<br>8.20    |             | 0.59           |             |                   |              |            |                | -39.76           |
| 260        | -11.72         | -6.49          | -17.46           | -0.09          |                | 0.42         |             | -8.39<br>2.71    |             | 0.59           |             |                   |              |            |                | -39.40           |
| 326        | -10.21         | -7.74<br>0.21  | 4.26             | -10.50         | -1.49          | -2.91        |             | -3.71            |             | 3.48           |             |                   |              |            |                | -38.82           |
| 729<br>583 | -6.25<br>6.21  | -0.21          | 4.12             | -10.50         | -0.17<br>1.40  | -2.91        |             | -2.19            |             | 0.59<br>-2.30  |             |                   |              |            | -0.09<br>0.48  | -38.77           |
| 354        | -6.81<br>-7.29 | -0.21<br>-0.21 | -14.50<br>-12.43 | -0.15<br>-0.10 | -1.49<br>-0.17 | 2.08<br>0.42 |             | -11.89<br>-12.50 |             | 0.59           |             |                   |              |            | -0.48<br>-0.71 | -38.76<br>-38.49 |
| 586        | -7.29<br>-9.20 | -3.98          | -12.43           | -0.10          |                | 0.42         |             | -12.50<br>-6.56  |             | -2.30          |             |                   | 1.25         |            |                | -38.32           |
| 267        | -9.20<br>-8.88 | -5.23          | 0.01             | -10.50         |                | -4.36        |             |                  |             | 3.48           |             |                   |              |            |                | -38.32           |
| 594        | -8.88<br>-4.68 | -5.23<br>-1.46 | -6.11            | -10.50         |                | -4.36        |             |                  |             | 0.59           |             |                   |              |            | -0.82          | -37.96           |
| 671        | -4.68<br>-2.69 |                | -5.11<br>-5.11   | -10.50         | 2.49           | -0.21        |             | -3.44<br>-3.58   |             | 0.59           |             | 0.07              | 1.51         |            |                | -37.52           |
| 680        | -2.69<br>-4.77 | 2.30<br>2.30   | -5.11            | -10.50         |                | 0.83         |             |                  |             | -2.30          |             |                   |              |            |                | -37.51           |
| 63         | -4.77<br>-8.12 | -7.74          | -13.22           | 2.81           | -2.82          | 0.83         |             | -10.87           |             | -2.30          |             |                   | 1.04         |            | -0.09          | -36.97           |
| 593        | -6.35          | -7.74<br>-2.72 | -11.75<br>-0.78  |                |                | -3.95        |             |                  |             | 0.59           |             |                   |              |            |                | -36.97           |
| 593        | -0.35          | -2.72          | -0.78            | -10.50         | 2.49           | -3.95        | -8.21       | -4.98            | 1.34        | 0.59           | -9.28       | 1.37              | 0.96         | 5.33       | -0.20          | -36.90           |

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| Weights    | 6              | Δ            | 8              | Д               | 2              | 3              | 5           | 9              | 3           | 2              | 10          | 1                 | 1            | 3          | 1            |                  |
|------------|----------------|--------------|----------------|-----------------|----------------|----------------|-------------|----------------|-------------|----------------|-------------|-------------------|--------------|------------|--------------|------------------|
| Weights    |                |              |                | -               |                | 3              |             |                |             |                | 10          |                   | _            |            |              |                  |
|            |                |              |                |                 |                |                |             |                |             |                |             |                   |              |            |              |                  |
|            |                | Angles       | Length Not     | Length          |                |                |             |                |             |                |             |                   |              |            |              |                  |
|            |                | Over 30      | Along Existing | Through         |                |                |             | Sensitive      |             | Archaeological | Residential |                   | Length Not   |            | Total        |                  |
|            | Total          | Degrees      | Transmission   | Previously      | Transmission   | Stream         | Wetlands in | Species        | Cropland in | Sites within   | Proximity   | Public Facilities | Along Parcel | Floodplain | Length       |                  |
| Route      | Length         | (count)      | Line           | Mined Area      | Line Crossings | Crossings      | ROW         | Score          | ROW         | ROW            | Score       | within 500 feet   | Boundary     | in ROW     | Karst        | Total            |
| 71         | -5.40          | -2.72        | 1.15           | -0.15           | -0.17          | -4.15          |             | -8.98          |             | -2.30          |             |                   | 0.81         |            | -0.07        | -36.73           |
| 660        | -4.82          | 6.07         | -13.50         | -0.15           | -1.49          | 1.87           |             | -12.03         | -0.07       | -2.30          |             |                   | 0.90         |            | 0.13         | -36.22           |
| 663        | -7.21          | 2.30         | -17.25         | -0.09           | 1.16           | 0.63           |             | -6.69          |             | -2.30          |             |                   | 1.20         |            | -0.88        | -35.80           |
| 258        | -8.61          | -2.72        | -13.26         | -0.10           | -0.17          | 0.63           |             | -12.18         |             | 0.59           |             |                   | 1.20         |            | -1.11        | -35.61           |
| 67         | -9.63          | -6.49        | -12.69         | 0.54            | -0.17          | -0.62          |             | -8.46          | -0.90       | -2.30          |             |                   |              |            | -0.84        | -35.43           |
| 575        | -4.00          | -0.21        | -5.94          | -10.50          | 2.49           | -0.21          |             | -3.26          | 0.42        | 0.59           |             | 0.07              | 1.48         |            | -0.85        | -34.74           |
| 584        | -6.09          | -0.21        | -14.05         | -0.10           | 1.16           | 1.04           |             | -10.35         | -0.96       | -2.30          |             | 0.07              | 0.87         |            | -0.48        | -34.65           |
| 670        | -4.36          | 3.56         | 0.22           | -10.50          | 2.49           | -4.15          |             | -5.12          |             | 0.59           |             | 1.37              | 0.97         |            | 0.41         | -34.36           |
| 74         | -7.80          | -3.98        | -2.60          | -0.09           | 2.49           | -5.40          |             | -3.65          | 2.59        | -2.30          |             |                   | 1.11         |            | -1.08        | -33.80           |
| 564        | -6.13          | 3.56         | -14.33         | -0.15           | -1.49          | 2.08           |             | -11.71         | -1.11       | -2.30          |             |                   | 0.85         |            | -0.27        | -33.35           |
| 64         | -6.21          | -5.23        | -10.55         | 1.60            | -2.82          | 0.63           |             | -11.48         |             | -2.30          |             |                   |              |            | -0.83        | -33.33           |
| 567        | -8.52          | -0.21        | -18.08         | -0.09           | 1.16           | 0.83           |             | -6.37          |             | -2.30          |             |                   | 1.16         |            | -1.28        | -32.92           |
| 72         | -4.68          | -2.72        | 1.60           | -0.10           | 2.49           | -5.19          |             | -7.44          | 1.82        | -2.30          |             |                   | 0.80         |            | -0.07        | -32.63           |
| 633        | -7.02          | -1.46        | 3.64           | -10.50          | -0.17          | -2.49          |             | -1.70          |             | 0.59           |             |                   | 0.97         |            | -0.31        | -32.47           |
| 370        | -7.50          | -7.74        | -12.31         | 2.81            | -2.82          | 1.04           |             | -12.09         |             | 0.59           |             |                   | 1.26         |            | -0.93        | -32.12           |
| 103        | -5.83          | -1.46        | -5.69          | -0.15           | -2.82          | 1.46           |             | -9.19          |             | -2.30          |             |                   |              |            | 0.50         | -32.09           |
| 661        | -4.10          | 6.07         | -13.05         | -0.10           | 1.16           | 0.83           |             | -10.49         |             | -2.30          |             |                   | 0.89         |            | 0.13         | -32.01           |
| 378        | -4.78          | -2.72        | 0.59           | -0.15           | -0.17          | -3.53          |             | -10.74         | 2.45        | 0.59           |             |                   | 1.03         |            | -0.16        | -31.89           |
| 106        | -8.22          | -5.23        | -9.44          | -0.09           | -0.17          | 0.21           |             | -3.87          | 0.69        | -2.30          |             |                   | 0.68         |            | -0.51        | -31.66           |
| F74        | -7.45          | -3.98        | -11.57         | 2.81            | -2.82          | 0.42           |             | -10.14         | -1.59       | -2.30          |             | 0.07              | 1.01         |            | -0.62        | -31.57           |
| 574<br>52  | -5.68<br>-4.73 | 1.05<br>1.05 | -0.61<br>1.33  | -10.50<br>-0.15 | 2.49<br>-0.17  | -3.95<br>-4.15 |             | -4.80<br>-8.79 |             | 0.59<br>-2.30  |             |                   | 0.93<br>0.77 |            | 0.02<br>0.15 | -31.49<br>-31.32 |
|            | -4.73          | -2.72        | 2.70           | -10.50          | 1.16           | -4.13          |             | -0.75          | 1.07        | 0.59           |             |                   |              |            | -0.09        | -30.98           |
| 114<br>410 | -5.75          | -2.72        | -6.59          | -0.15           | -2.82          | 1.87           |             | -0.73          |             | 0.59           |             |                   |              |            | 0.23         | -30.79           |
| 374        | -9.01          | -6.49        | -13.26         | 0.54            | -0.17          | 0.00           |             | -10.23         | -0.02       | 0.59           |             | -1.22             | 0.85         |            | -0.93        | -30.79           |
| 95         | -3.02          | -3.98        | 2.88           | -10.50          | 1.16           | -0.83          |             | -10.23         | 1.29        | 0.59           | -15.75      | -1.22             | 0.83         |            | 0.13         | -30.48           |
| 413        | -8.14          | -6.49        | -10.34         | -0.09           | -0.17          | 0.63           |             | -5.79          |             | 0.59           |             |                   | 0.94         |            | -0.78        | -30.46           |
| 113        | -5.38          | -3.98        | 8.04           |                 |                | -4.57          |             | -2.29          |             | 0.59           |             |                   |              |            | 0.78         | -30.24           |
| 48         | -8.96          | -2.72        | -12.52         | 0.54            | -0.17          | -0.62          |             | -8.28          |             | -2.30          |             |                   |              |            | -0.62        | -30.24           |
| 180        | -8.25          | -3.98        | -12.78         |                 | -2.82          | 3.12           |             | -12.34         |             | 0.59           |             |                   |              |            | -1.61        | -29.71           |
| 421        | -3.62          | -3.98        | 1.80           |                 | 1.16           | -0.41          |             | -2.68          |             | 3.48           |             |                   |              |            | -0.35        | -29.67           |
| 183        | -10.65         | -7.74        | -16.53         | -0.09           |                | 1.87           |             |                |             | 0.59           |             | -1.22             |              |            | -2.62        | -29.30           |
| 402        | -2.95          | -5.23        | 1.97           | -10.50          |                | -0.41          |             |                |             | 3.48           |             |                   |              |            | -0.14        | -29.28           |
| 274        | -8.82          | -10.26       | -13.13         | 2.81            | -2.82          | 1.25           |             | -11.77         |             | 0.59           |             |                   | 1.21         |            | -1.32        | -29.25           |
| 565        | -5.42          | 3.56         | -13.88         |                 |                | 1.04           |             | -10.17         |             | -2.30          |             |                   |              |            | -0.27        | -29.25           |
| 84         | -5.15          | -0.21        | -5.51          | -0.15           | -2.82          | 1.46           |             |                |             | -2.30          |             |                   |              |            | 0.71         | -29.21           |
| 282        | -6.10          | -5.23        | -0.24          | -0.15           | -0.17          | -3.32          |             | -10.42         |             | 0.59           |             |                   |              |            | -0.55        | -29.01           |
| 381        | -7.17          | -3.98        | -3.16          | -0.09           | 2.49           | -4.78          |             | -5.41          | 3.47        | 0.59           |             |                   | 1.34         |            | -1.17        | -28.96           |
| 420        | -5.30          | -5.23        | 7.13           | -10.50          |                | -4.15          |             | -4.21          | 3.14        | 3.48           |             |                   |              |            | 0.52         | -28.93           |
| 87         | -7.54          | -3.98        | -9.26          | -0.09           |                | 0.21           |             |                |             | -2.30          |             |                   |              |            | -0.30        | -28.77           |
| 191        | -6.12          | -5.23        | -4.39          | -10.50          | 1.16           | 0.83           |             | -3.89          |             | 3.48           |             |                   |              |            | -2.19        | -28.59           |
| 371        | -5.59          | -5.23        | -11.11         | 1.60            | -2.82          | 1.25           |             | -13.25         |             | 0.59           |             |                   |              |            | -0.93        | -28.50           |
| 38         | -2.38          | -5.23        | -1.42          | -10.50          | 1.16           | 1.67           |             | 1.08           |             | 0.59           |             |                   |              |            | -1.55        | -28.47           |
| 55         | -7.12          | -0.21        | -2.42          | -0.09           |                | -5.40          |             |                |             | -2.30          |             |                   |              |            | -0.86        | -28.40           |

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# Appendix B - Sorted, Weighted Routes Wolf Creek - Blackberry

| Weights    | 6              | 4              | 8                | Д              | 2              | 3            | 5           | 9               | 3            | 2              | 10            | 1                 | 1            | 3             | 1              |                  |
|------------|----------------|----------------|------------------|----------------|----------------|--------------|-------------|-----------------|--------------|----------------|---------------|-------------------|--------------|---------------|----------------|------------------|
| Weights    |                |                | 0                | -              |                |              |             |                 | 3            |                | 10            |                   |              | <u> </u>      |                |                  |
|            |                |                |                  |                |                |              |             |                 |              |                |               |                   |              |               |                |                  |
|            |                | Angles         | Length Not       | Length         |                |              |             |                 |              |                |               |                   |              |               |                |                  |
|            |                | Over 30        | Along Existing   | Through        |                |              |             | Sensitive       |              | Archaeological | Residential   |                   | Length Not   |               | Total          |                  |
|            | Total          | Degrees        | Transmission     | Previously     | Transmission   | Stream       | Wetlands in | Species         | Cropland in  | Sites within   | Proximity     | Public Facilities | Along Parcel | Floodplain    | Length         |                  |
| Route      | Length         | (count)        | Line             | Mined Area     | Line Crossings | Crossings    | ROW         | Score           | ROW          | ROW            | Score         | within 500 feet   | Boundary     | in ROW        | Karst          | Total            |
| 104        | -5.11          | -1.46          | -5.23            | -0.10          | -0.17          | 0.42         |             | -7.66           | -0.08        | -2.30          | 2.74          | -1.22             | 0.36         |               | 0.50           | -28.00           |
| 45         | -5.54          | -1.46          | -10.37           | 1.60           | -2.82          | 0.63         |             | -11.30          | -0.29        | -2.30          | 8.29          | -1.22             | 1.10         |               | -0.62          | -27.93           |
| 391        | -5.08          | -1.46          | -6.42            | -0.15          | -2.82          | 1.87         | -0.39       | -10.94          | 0.69         | 0.59           | -1.88         | -1.22             | 0.60         | -1.73         | 0.45           | -27.90           |
| 190        | -7.80          | -6.49          | 0.94             | -10.50         | 1.16           | -2.91        |             | -5.44           | 4.06         | 3.48           |               | 0.07              | 1.00         | 4.50          | -1.32          | -27.86           |
| 278        | -10.32         | -9.00          | -14.08           | 0.54           | -0.17          | 0.21         |             | -9.91           | -1.05        | 0.59           | 17.53         | -1.22             | 0.80         | -3.45         | -1.32          | -27.71           |
| 379        | -4.06          | -2.72          | 1.04             | -0.10          | 2.49           | -4.57        |             | -9.21           | 2.70         | 0.59           | -9.28         | 0.07              | 1.02         | -2.91         | -0.16          | -27.69           |
| 394        | -7.47          | -5.23          | -10.17           | -0.09          | -0.17          | 0.63         |             | -5.61           | 1.70         | 0.59           | 2.74          | -1.22             | 0.91         | 1.28          | -0.56          | -27.47           |
| 94         | -4.70          | -2.72          | 8.21             | -10.50         | 1.16           | -4.57        |             | -2.10           |              | 0.59           | -6.51         | 0.07              | 0.42         |               | 1.00           | -27.35           |
| 53         | -4.01          | 1.05           | 1.78             | -0.10          | 2.49           | -5.19        |             | -7.26           | 1.91         | -2.30          | -5.58         | 0.07              | 0.77         |               | 0.15           | -27.12           |
| 27         | -4.51          | -1.46          | -9.81            | -0.15          | -2.82          | 3.95         |             | -7.36           | 1.38         | -2.30          | 2.74          |                   | 0.29         |               | -0.96          | -27.08           |
| 30         | -6.90          | -5.23          | -13.56           | -0.09          | -0.17          | 2.71         |             | -2.03           | 2.39         | -2.30          | 7.36          |                   | 0.60         |               | -1.97          | -26.76           |
| 351        | -6.82          | -3.98          | -12.14           | 2.81           | -2.82          | 1.04         |             | -11.90          |              | 0.59           | 5.51          | 0.07              | 1.23         |               | -0.71          | -26.71           |
| 411        | -5.03          | -2.72          | -6.14            | -0.10          | -0.17          | 0.83         |             | -9.59           | 0.84         | 0.59           | -1.88         | -1.22             | 0.62         | -2.77         | 0.23           | -26.67           |
| 359        | -4.10          | 1.05           | 0.76             | -0.15          | -0.17          | -3.53        |             | -10.56          | 2.55         | 0.59           | -9.28         | 0.07              | 1.00         | -1.86         | 0.05           | -26.50           |
| 285        | -8.49          | -6.49          | -3.98            | -0.09          | 2.49           | -4.57        | -4.90       | -5.10           |              | 0.59           | 0.89          | 0.07              | 1.29         |               | -1.57          | -26.09           |
| 401        | -4.62          | -3.98          | 7.31             | -10.50         | 1.16           | -4.15        |             | -4.03           | 3.23         | 3.48           | -11.13        | 0.07              | 0.68         |               | 0.73           | -26.03           |
| 487        | -5.06          | -0.21          | -13.40           | -0.15          | -1.49          | 3.54         |             | -10.34          | 0.89         | -2.30          |               | 0.07              | 0.56         |               | -0.77          | -25.87           |
| 172        | -5.45          | -3.98          | -4.22            | -10.50         | 1.16           | 0.83         |             | -3.72           | 3.14         | 3.48           | -10.20        | -1.22             | 1.52         |               | -1.98          | -25.72           |
| 677        | -4.30          | -1.46          | -12.93           | 2.81           | -1.49          | 1.46         |             | -10.08          | -1.43        | -2.30          | 2.74          | 1.37              | 0.90         | -2.77         | -0.09          | -25.66           |
| 275        | -6.90<br>7.54  | -7.74          | -11.93           | 1.60           | -2.82          | 1.46         |             | -12.93          | -0.54        | 0.59           | 10.13         | -1.22             | 1.31         | -2.85         | -1.32          | -25.62           |
| 181<br>490 | -7.54<br>-7.45 | -3.98<br>-3.98 | -12.33<br>-17.15 | -0.10<br>-0.09 | -0.17<br>1.16  | 2.08<br>2.29 |             | -10.81<br>-5.01 | 1.76<br>1.90 | 0.59<br>-2.30  | 8.29<br>10.13 | -1.22<br>0.07     | 0.91<br>0.87 | -1.98<br>2.76 | -1.61<br>-1.78 | -25.61<br>-25.45 |
| 685        | -7.43          | 3.56           | -0.03            | -0.09          | 1.16           | -3.12        |             | -8.73           | 1.83         | -2.30          |               | 1.37              | 0.67         | -1.15         | 0.68           | -25.43           |
| 37         | -1.56<br>-4.06 | -3.98          | 3.91             | -10.50         | 1.16           | -2.08        |             | -0.45           | 3.92         | 0.59           | -6.51         | 0.07              | 0.87         |               | -0.68          | -25.33           |
| 355        | -8.33          | -2.72          | -13.08           | 0.54           | -0.17          | 0.00         | 0.71        | -10.04          | 0.07         | 0.59           | 11.98         | -1.22             | 0.82         | -3.63         | -0.08          | -25.19           |
| 85         | -4.43          | -0.21          | -5.06            | -0.10          | -0.17          | 0.42         |             | -7.48           | 0.07         | -2.30          | 2.74          | -1.22             | 0.82         |               | 0.71           | -25.19           |
| 283        | -5.38          | -5.23          | 0.22             | -0.10          |                | -4.36        |             | -8.89           | 1.66         | 0.59           | -3.73         | 0.07              | 0.98         |               | -0.55          | -24.91           |
| 498        | -2.92          | -1.46          |                  | -10.50         |                | 1.25         |             |                 |              | 0.59           |               |                   | 1.19         |               | -1.36          | -24.63           |
| 314        | -6.52          | -3.98          |                  | -0.15          | -2.82          | 2.29         |             | -10.64          | -0.48        | 0.59           |               |                   |              |               | 0.01           | -24.38           |
| 161        | -7.58          | -0.21          | -12.61           | -0.15          | -2.82          | 3.12         |             | -12.16          |              | 0.59           |               |                   |              |               | -1.39          | -24.31           |
| 717        | -2.56          | 3.56           | -7.21            | -0.15          | -1.49          | 2.29         |             | -9.11           | -0.03        | -2.30          |               | 0.07              | 0.83         |               | 1.07           | -24.30           |
| 681        | -5.81          | -0.21          | -13.88           | 0.54           | 1.16           | 0.42         |             | -8.22           | -0.65        | -2.30          |               | 0.07              | 0.49         |               | -0.09          | -24.13           |
| 317        | -8.91          | -7.74          | -10.82           | -0.09          |                | 1.04         |             |                 | 0.53         | 0.59           |               | -1.22             | 0.86         |               | -1.00          | -24.05           |
| 497        | -4.60          | -2.72          | 0.32             | -10.50         | 2.49           | -2.49        |             | -3.43           | 3.43         | 0.59           | -3.73         | 1.37              | 0.64         | <del></del>   | -0.49          | -24.01           |
| 720        | -4.95          | -0.21          | -10.96           | -0.09          |                | 1.04         |             | -3.79           |              | -2.30          |               | 0.07              | 0.58         |               | 0.06           | -24.01           |
| 164        | -9.97          | -3.98          | -16.36           | -0.09          |                | 1.87         |             | -6.84           |              | 0.59           |               | -1.22             |              |               | -2.40          | -23.90           |
| 255        | -8.14          | -6.49          | -12.96           | 2.81           | -2.82          | 1.25         |             | -11.58          |              | 0.59           |               | 0.07              | 1.18         |               | -1.11          | -23.85           |
| 392        | -4.36          | -1.46          | -5.97            | -0.10          | -0.17          | 0.83         |             |                 | 0.93         | 0.59           |               | -1.22             | 0.59         |               | 0.45           | -23.78           |
| 345        | -1.76          | -5.23          | -1.98            |                |                | 2.29         |             | -0.68           |              | 3.48           |               | -1.22             | 1.14         |               | -1.64          | -23.62           |
| 263        | -5.42          | -1.46          | -0.06            | -0.15          |                | -3.32        |             | -10.24          | 1.51         | 0.59           |               |                   | 0.95         |               | -0.34          | -23.61           |
| 362        | -6.50          | -0.21          | -2.99            | -0.09          |                | -4.78        |             | -5.23           | 3.56         | 0.59           |               |                   | 1.31         |               | -0.96          | -23.55           |
| 230        | -8.46          | -5.23          | 5.36             |                | -1.49          | -1.45        |             | -2.16           |              | 3.48           |               | -1.22             | 1.01         |               | -1.44          | -23.44           |
| 325        | -4.39          | -5.23          | 1.32             | -10.50         | 1.16           | 0.00         |             | -2.20           |              | 3.48           |               |                   | 1.18         |               | -0.58          | -23.26           |
| 728        | -0.42          | 2.30           |                  |                |                | 0.00         |             |                 | 1.49         | 0.59           |               | 0.07              | 0.90         |               | 0.48           | -23.20           |

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# Appendix B - Sorted, Weighted Routes Wolf Creek - Blackberry

| Weights    | 6              | 4             | 8              | Д              | 2              | 3             | 5           | 9              | 3            | 2              | 10            | 1                 | 1            | 3          | 1            |                  |
|------------|----------------|---------------|----------------|----------------|----------------|---------------|-------------|----------------|--------------|----------------|---------------|-------------------|--------------|------------|--------------|------------------|
| Weights    | -              | -             | J              |                |                |               |             |                | 3            |                | 10            | _                 |              |            |              |                  |
|            |                |               |                |                |                |               |             |                |              |                |               |                   |              |            |              |                  |
|            |                | Angles        | Length Not     | Length         |                |               |             |                |              |                |               |                   |              |            |              |                  |
|            |                | Over 30       | Along Existing | Through        |                |               |             | Sensitive      |              | Archaeological | Residential   |                   | Length Not   |            | Total        |                  |
|            | Total          | Degrees       | Transmission   | Previously     | Transmission   | Stream        | Wetlands in | Species        | Cropland in  | Sites within   | Proximity     | Public Facilities | Along Parcel | Floodplain | Length       |                  |
| Route      | Length         | (count)       | Line           | Mined Area     | Line Crossings | Crossings     | ROW         | Score          | ROW          | ROW            | Score         | within 500 feet   | Boundary     | in ROW     | Karst        | Total            |
| 352        | -4.91          | -1.46         | -10.94         | 1.60           | -2.82          | 1.25          |             | -13.07         | 0.59         | 0.59           | 4.59          |                   | 1.33         |            | -0.71        | -23.10           |
| 28         | -3.80          | -1.46         | -9.36          | -0.10          | -0.17          | 2.91          |             | -5.83          | 1.63         | -2.30          | 2.74          | -1.22             | 0.29         |            | -0.96        | -22.98           |
| 581        | -5.62          | -3.98         | -13.76         | 2.81           | -1.49          | 1.67          |             | -9.76          | -2.47        | -2.30          | 8.29          | 1.37              | 0.85         |            | -0.48        | -22.90           |
| 306        | -3.72          | -6.49         | 1.49           | -10.50         | 1.16           | 0.00          |             | -2.01          | 1.14         | 3.48           |               |                   | 1.15         |            | -0.36        | -22.88           |
| 709        | 0.25           | 1.05          | 1.35           | -10.50         | 2.49           | 0.00          |             | -0.48          | 1.59         | 0.59           | -23.15        | 0.07              | 0.87         |            | 0.70         | -22.82           |
| 589        | -2.90          | 1.05          | -0.86          | -0.15          | 1.16           | -2.91         |             | -8.41          | 0.79         | -2.30          | -6.51         | 1.37              | 0.62         |            | 0.28         | -22.66           |
| 324        | -6.07          | -6.49         | 6.65           | -10.50         | 1.16           | -3.74         |             | -3.73          | 2.06         | 3.48           | -4.66         | 0.07              | 0.63         |            | 0.30         | -22.63           |
| 688        | -3.97          | 2.30          | -3.78          | -0.09          | 3.81           | -4.36         |             | -3.40          | 2.84         | -2.30          | -7.43         | 1.37              | 0.98         |            | -0.33        | -22.60           |
| 727        | -2.10          | 1.05          | 6.51           | -10.50         | 2.49           | -3.74         | -10.74      | -2.21          | 2.51         | 0.59           | -13.90        |                   | 0.35         |            | 1.35         | -22.56           |
| 171        | -7.13          | -2.72         | 1.11           | -10.50         | 1.16           | -2.91         |             | -5.26          | 4.15         | 3.48           |               |                   | 0.97         |            | -1.11        | -22.45           |
| 259        | -9.65          | -5.23         | -13.91         | 0.54           | -0.17          | 0.21          |             | -9.72          |              | 0.59           | 17.53         | -1.22             | 0.77         |            | -1.11        | -22.31           |
| 360        | -3.39          | 1.05          | 1.21           | -0.10          | 2.49           | -4.57         |             | -9.03          | 2.79         | 0.59           | -9.28         |                   | 0.99         |            | 0.05         | -22.29           |
| 334        | -3.89          | -1.46         | -10.37         | -0.15          | -2.82          | 4.58          |             | -9.13          | 2.26         | 0.59           | -0.96         |                   | 0.52         |            | -1.05        | -22.23           |
| 678        | -2.39          | 1.05          | -11.73         | 1.60           | -1.49          | 1.67          |             | -11.24         | -0.13        | -2.30          | 1.81          | 0.07              | 1.00         |            | -0.09        | -22.01           |
| 337        | -6.28          | -5.23         | -14.12         | -0.09          | -0.17          | 3.33          |             | -3.80          | 3.27         | 0.59           | 3.66          | -1.22             | 0.83         |            | -2.06        | -21.80           |
| 479        | -2.25          | -0.21         | -4.84          | -10.50         | 2.49           | 1.25          |             | -1.71          | 2.51         | 0.59           | -12.98        | 0.07              | 1.16         |            | -1.14        | -21.75           |
| 488        | -4.34          | -0.21         | -12.95         | -0.10          | 1.16           | 2.50          |             | -8.81          | 1.14         | -2.30          |               | 0.07              | 0.55         |            | -0.77        | -21.65           |
| 295        | -5.85<br>-1.88 | -2.72<br>4.82 | -6.90<br>-7.04 | -0.15          | -2.82          | 2.29          |             | -10.46         | -0.39        | 0.59           | 4.59<br>-4.66 |                   | 0.52<br>0.24 |            | 0.23         | -21.49           |
| 698<br>686 | -0.86          | 3.56          | 0.42           | -0.15<br>-0.10 | -1.49<br>3.81  | 2.29<br>-4.15 |             | -8.93<br>-7.20 | 0.06<br>2.07 | -2.30<br>-2.30 | -12.05        | 0.07<br>1.37      | 0.24         |            | 1.29<br>0.68 | -21.41<br>-21.31 |
| 585        | -7.13          | -2.72         | -14.70         | 0.54           | 1.16           | 0.63          |             | -7.20          |              | -2.30          | 14.76         |                   | 0.88         |            | -0.48        | -21.31           |
| 701        | -4.27          | 1.05          | -14.70         | -0.09          | 1.16           | 1.04          |             | -3.60          | 1.07         | -2.30          | -0.03         | 0.07              | 0.44         |            | 0.28         | -21.23           |
| 298        | -8.24          | -6.49         | -10.65         | -0.09          | -0.17          | 1.04          |             | -5.13          | 0.62         | 0.59           | 9.21          | -1.22             | 0.83         |            | -0.78        | -21.11           |
| 69         | -4.21          | -6.49         | 1.90           | 2.81           | -0.17          | -4.57         |             | -6.84          | 0.02         | -2.30          | 2.74          |                   | 0.83         |            | -0.78        | -21.00           |
| 249        | -3.07          | -7.74         | -2.81          | -10.50         | 1.16           | 2.50          |             | -0.36          | 2.76         | 3.48           | -13.90        | -1.22             | 1.10         |            | -2.03        | -20.75           |
| 266        | -7.81          | -2.72         | -3.81          | -0.09          | 2.49           | -4.57         | -4.57       | -4.91          | 2.52         | 0.59           | 0.89          | 0.07              | 1.26         |            | -1.35        | -20.73           |
| 344        | -3.44          | -3.98         | 3.35           | -10.50         | 1.16           | -1.45         |             | -2.22          | 4.80         | 3.48           |               |                   | 0.60         |            | -0.77        | -20.49           |
| 468        | -4.38          | 3.56          | -13.23         | -0.15          | -1.49          | 3.54          |             | -10.16         |              | -2.30          |               |                   | 0.53         |            | -0.77        | -20.45           |
| 315        | -5.80          | -3.98         | -6.62          | -0.10          | -0.17          | 1.25          |             | -9.10          |              | 0.59           |               |                   |              |            | 0.01         | -20.27           |
| 60         | -1.00          | 1.05          | 4.77           | 1.65           | -2.82          | -1.87         |             | 6.23           |              | 0.59           |               |                   |              |            | -0.61        | -20.26           |
| 658        | -3.63          | 2.30          | -12.76         | 2.81           | -1.49          | 1.46          |             | -9.90          |              | -2.30          |               |                   | 0.87         |            | 0.13         | -20.25           |
| 256        | -6.23          | -3.98         | -11.76         | 1.60           | -2.82          | 1.46          |             | -12.75         | -0.44        | 0.59           |               |                   | 1.28         |            | -1.11        | -20.21           |
| 162        | -6.86          | -0.21         | -12.16         | -0.10          | -0.17          | 2.08          |             | -10.63         | 1.85         | 0.59           |               |                   | 0.88         |            | -1.39        | -20.21           |
| 718        | -1.84          | 3.56          | -6.76          | -0.10          | 1.16           | 1.25          |             | -7.58          |              | -2.30          |               |                   | 0.26         |            | 1.07         | -20.20           |
| 471        | -6.77          | -0.21         | -16.98         | -0.09          | 1.16           | 2.29          |             | -4.82          | 1.99         | -2.30          |               |                   | 0.84         |            | -1.57        | -20.05           |
| 666        | -0.91          | 7.33          | 0.14           | -0.15          | 1.16           | -3.12         |             | -8.55          |              | -2.30          |               | 1.37              |              |            | 0.89         | -20.01           |
| 305        | -5.39          | -5.23         | 6.82           | -10.50         | 1.16           | -3.74         |             | -3.55          |              | 3.48           |               |                   | 0.60         |            | 0.51         | -19.74           |
| 592        | -5.29          | -0.21         | -4.61          | -0.09          | 3.81           | -4.15         |             | -3.08          |              | -2.30          |               |                   | 0.93         |            | -0.73        | -19.71           |
| 708        | -1.43          | 2.30          | 6.68           | -10.50         | 2.49           | -3.74         |             | -2.02          |              | 0.59           |               |                   |              |            | 1.57         | -19.67           |
| 264        | -4.70          | -1.46         | 0.39           | -0.10          |                | -4.36         |             | -8.71          | 1.75         | 0.59           |               |                   | 0.95         |            | -0.34        | -19.51           |
| 537        | -5.26          | -1.46         | 4.74           | -10.50         | -0.17          | -1.04         |             | -0.16          |              | 0.59           |               | 0.07              | 0.65         |            | -0.60        | -19.47           |
| 238        | -5.21          | -3.98         | -11.20         | -0.15          | -2.82          | 4.78          |             | -8.81          | 1.23         | 0.59           |               |                   |              |            | -1.45        | -19.36           |
| 73         | -5.72          | -5.23         | 0.95           | 0.54           | 2.49           | -5.61         |             | -4.99          |              | -2.30          |               |                   | 0.37         |            | -0.07        | -19.24           |
| 582        | -3.71          | -1.46         | -12.55         | 1.60           | -1.49          | 1.87          |             | -10.92         |              | -2.30          |               |                   | 0.95         |            | -0.48        | -19.15           |

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| Weights  | 6      | 1       | 8              | 4          | 2              | 3         |             | q         | 3           | 2              | 10          | 1                        | 1            | 3          | 1      |        |
|----------|--------|---------|----------------|------------|----------------|-----------|-------------|-----------|-------------|----------------|-------------|--------------------------|--------------|------------|--------|--------|
| vveignts | 0      | 4       | 8              | 4          |                | 3         | , ,         | 9         |             |                | 10          | 1                        |              | 3          | Τ.     |        |
|          |        |         |                |            |                |           |             |           |             |                |             |                          |              |            |        | ,      |
|          |        | Angles  | Length Not     | Length     |                |           |             |           |             |                |             |                          |              |            |        |        |
|          |        | Over 30 | Along Existing | Through    |                |           |             | Sensitive |             | Archaeological | Residential |                          | Length Not   |            | Total  |        |
|          | Total  | Degrees | Transmission   | Previously | Transmission   | Stream    | Wetlands in | Species   | Cropland in | Sites within   | Proximity   | <b>Public Facilities</b> | Along Parcel | Floodplain | Length |        |
| Route    | Length | (count) | Line           | Mined Area | Line Crossings | Crossings | ROW         | Score     | ROW         | ROW            | Score       | within 500 feet          | Boundary     | in ROW     | Karst  | Total  |
| 241      | -7.60  | -7.74   | -14.95         | -0.09      | -0.17          | 3.54      | -0.83       | -3.48     | 2.24        | 0.59           | 9.21        | -1.22                    | 0.78         | 3.14       | -2.46  | -19.05 |
| 662      | -5.14  | 3.56    | -13.70         | 0.54       | 1.16           | 0.42      | -1.60       | -8.04     | -0.56       | -2.30          | 9.21        | 0.07                     | 0.46         | -2.94      | 0.13   | -18.73 |
| 478      | -3.93  | 1.05    | 0.49           | -10.50     | 2.49           | -2.49     | -9.75       | -3.25     | 3.53        | 0.59           | -3.73       | 1.37                     | 0.61         | 5.20       | -0.27  | -18.60 |
| 590      | -2.18  | 1.05    | -0.40          | -0.10      | 3.81           | -3.95     | -2.26       | -6.88     | 1.04        | -2.30          | -6.51       | 1.37                     | 0.62         | -2.03      | 0.28   | -18.44 |
| 335      | -3.17  | -1.46   | -9.92          | -0.10      | -0.17          | 3.54      | 1.49        | -7.59     | 2.50        | 0.59           | -0.96       | -1.22                    | 0.51         | -1.10      | -1.05  | -18.13 |
| 621      | -3.32  | 2.30    | -7.69          | -0.15      | -1.49          | 2.71      | -0.17       | -8.63     | -1.11       | -2.30          | 1.81        | 0.07                     | 0.19         | -1.09      | 0.85   | -18.02 |
| 248      | -4.75  | -6.49   | 2.52           | -10.50     | 1.16           | -1.24     | -4.02       | -1.90     | 3.77        | 3.48           | -4.66       | 0.07                     | 0.55         | 5.56       | -1.16  | -17.62 |
| 624      | -5.72  | -1.46   | -11.44         | -0.09      | 1.16           | 1.46      | -4.57       | -3.30     | -0.09       | -2.30          | 6.44        | 0.07                     | 0.50         | 1.93       | -0.16  | -17.59 |
| 562      | -4.94  | -0.21   | -13.58         | 2.81       | -1.49          | 1.67      | 4.90        | -9.58     | -2.38       | -2.30          | 8.29        | 1.37                     | 0.82         | -2.60      | -0.27  | -17.49 |
| 296      | -5.13  | -2.72   | -6.45          | -0.10      | -0.17          | 1.25      | 3.14        | -8.92     | -0.15       | 0.59           | 4.59        | -1.22                    | 0.51         | -2.83      | 0.23   | -17.38 |
| 699      | -1.16  | 4.82    | -6.59          | -0.10      | 1.16           | 1.25      | -2.15       | -7.39     | 0.30        | -2.30          | -4.66       | 0.07                     | 0.23         | -2.08      | 1.29   | -17.31 |
| 652      | 1.44   | 1.05    | -2.60          | -10.50     | 2.49           | 2.71      | -3.03       | 1.32      | 3.16        | 0.59           | -22.22      | 0.07                     | 0.79         | 8.38       | -0.80  | -17.15 |
| 570      | -2.23  | 4.82    | -0.68          | -0.15      | 1.16           | -2.91     | -2.48       | -8.23     | 0.89        | -2.30          | -6.51       | 1.37                     | 0.59         | -0.98      | 0.50   | -17.14 |
| 70       | -2.30  | -3.98   | 3.10           | 1.60       | -0.17          | -4.36     | -2.15       | -8.01     | 1.61        | -2.30          | 1.81        | 0.07                     | 0.88         | -2.88      | -0.07  | -17.13 |
| 669      | -3.30  | 6.07    | -3.61          | -0.09      | 3.81           | -4.36     | -9.64       | -3.22     | 2.93        | -2.30          | -7.43       | 1.37                     | 0.95         | 1.85       | -0.12  | -17.08 |
| 632      | -1.19  | 1.05    | 0.70           | -10.50     | 2.49           | 0.42      | -1.71       | -0.19     | 0.42        | 0.59           | -16.67      | 0.07                     | 0.82         | 6.66       | 0.26   | -16.79 |
| 659      | -1.71  | 4.82    | -11.55         | 1.60       | -1.49          | 1.67      | 2.81        | -11.06    | -0.04       | -2.30          | 1.81        | 0.07                     | 0.97         | -2.33      | 0.13   | -16.61 |
| 613      | -0.52  | -0.21   | 0.87           | -10.50     | 2.49           | 0.42      | -1.38       | -0.01     | 0.51        | 0.59           | -16.67      | 0.07                     | 0.79         | 6.66       | 0.48   | -16.41 |
| 469      | -3.66  | 3.56    | -12.78         | -0.10      | 1.16           | 2.50      | -1.49       | -8.62     | 1.23        | -2.30          | 5.51        | 0.07                     | 0.52         | -1.29      | -0.56  | -16.25 |
| 101      | -4.64  | -5.23   | -4.94          | 2.81       | -2.82          | 1.04      | -0.06       | -7.07     | -1.59       | -2.30          | 11.06       | 0.07                     | 0.35         | -3.43      | 0.50   | -16.24 |
| 631      | -2.87  | -0.21   | 6.03           | -10.50     | 2.49           | -3.32     | -7.76       | -1.73     | 1.43        | 0.59           | -7.43       | 1.37                     | 0.27         | 4.35       | 1.13   | -16.16 |
| 61       | -0.28  | 1.05    | 5.22           | 1.70       | -0.17          | -2.91     | -2.37       | 7.76      | -4.68       | 0.59           | -14.83      | -1.22                    | 0.06         | -5.38      | -0.61  | -16.05 |
| 376      | -3.59  | -6.49   | 1.34           | 2.81       | -0.17          | -3.95     | 2.04        | -8.61     | 1.19        |                | -0.96       | 1.37                     | 1.01         | -2.35      | -0.16  | -15.93 |
| 667      | -0.19  | 7.33    | 0.60           | -0.10      | 3.81           | -4.15     | -4.68       | -7.01     | 2.16        | -2.30          | -12.05      | 1.37                     | 0.63         | -2.20      | 0.89   | -15.91 |
| 109      | -1.92  | -0.21   | 7.96           | -0.15      | -0.17          | -3.53     | -7.43       | -5.71     | 1.67        | -2.30          | -3.73       | 0.07                     | 0.11         | -1.81      | 1.26   | -15.88 |
| 641      | -0.69  | 4.82    | -11.00         | -0.15      | -1.49          | 4.99      | -1.49       | -7.12     | 1.63        | -2.30          | -3.73       | 0.07                     | 0.16         | 0.64       | -0.21  | -15.87 |
| 566      | -6.45  | 1.05    | -14.53         |            | 1.16           | 0.63      |             | -7.72     | -1.59       |                | 14.76       |                          | 0.41         | -2.75      | -0.27  | -15.84 |
| 644      | -3.08  | 1.05    |                |            | 1.16           |           |             |           |             |                | 0.89        |                          | 0.47         |            | -1.23  |        |
| 367      | -0.38  | 1.05    | 4.21           |            | -2.82          | -1.24     |             | 4.46      |             |                | -18.52      |                          | 0.29         |            | -0.71  | -15.43 |
| 50       | -3.54  | -2.72   |                |            | -0.17          |           |             |           |             |                | 2.74        |                          | 0.75         |            | 0.15   | -15.36 |
| 239      | -4.49  | -3.98   | -10.75         |            | -0.17          | 3.74      |             | -7.27     | 1.47        | 0.59           | 4.59        |                          | 0.46         | -0.93      | -1.45  | -15.26 |
| 602      | -2.65  | 3.56    |                |            | -1.49          |           |             |           |             |                | 1.81        | 0.07                     | 0.16         |            | 1.07   | -15.14 |
| 408      | -4.56  | -6.49   |                |            | -2.82          | 1.46      | 1           |           | -0.67       |                | 6.44        |                          | 0.60         |            | 0.23   | -14.92 |
| 41       | -0.33  | 4.82    | 4.95           |            | -2.82          | -1.87     | <b>.</b>    | 6.41      | -4.83       |                | -14.83      |                          | 0.04         | -4.33      | -0.40  | -14.86 |
| 605      | -5.04  | -0.21   |                |            | 1.16           |           |             | -3.12     |             |                | 6.44        |                          | 0.47         | 1.93       | 0.05   | -14.70 |
| 416      | -1.84  | -1.46   |                |            | -0.17          |           |             | -7.65     |             |                | -8.35       |                          | 0.37         |            | 1.00   |        |
| 105      | -6.15  | -3.98   |                |            | -0.17          |           |             |           | -0.80       |                | 17.53       | -1.22                    | -0.07        |            | 0.50   | -14.58 |
| 380      | -5.10  | -5.23   | 0.39           |            | 2.49           |           |             | -6.75     |             |                | 5.51        |                          | 0.59         |            | -0.16  | -14.39 |
| 573      | -4.62  | 3.56    |                |            | 3.81           | -4.15     | -6.99       |           | 1.89        |                | -1.88       |                          | 0.90         |            | -0.51  | -14.31 |
| 556      | 0.12   | -1.46   |                |            | 2.49           |           | <b>.</b>    |           |             |                | -16.67      | 0.07                     | 0.74         | 8.56       | -1.19  | -14.29 |
| 651      | -0.24  | 2.30    |                |            | 2.49           | -1.04     |             |           | 4.18        |                | -12.98      |                          | 0.24         | 6.08       | 0.07   | -14.01 |
| 178      | -7.06  | -7.74   | -12.04         |            | -2.82          | 2.71      |             |           | 0.26        |                | 16.61       | 0.07                     | 0.89         |            | -1.61  | -13.85 |
| 54       | -5.05  | -1.46   |                |            | 2.49           |           |             |           | 1.19        |                | 9.21        |                          | 0.34         | -3.49      | 0.15   | -13.84 |
| 622      | -2.60  | 2.30    | -7.24          | -0.10      | 1.16           | 1.67      | 0.49        | -7.10     | -0.87       | -2.30          | 1.81        | 0.07                     | 0.18         | -2.13      | 0.85   | -13.80 |

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# Appendix B - Sorted, Weighted Routes Wolf Creek - Blackberry

|         | اء ا   |         | _              |            |                |           |             |               |             |                |             |                   |              | ا          |        | 1      |
|---------|--------|---------|----------------|------------|----------------|-----------|-------------|---------------|-------------|----------------|-------------|-------------------|--------------|------------|--------|--------|
| Weights | 6      | 4       | 8              | 4          | 2              | 3         | 5           | 9             | 3           | 2              | 10          | 1                 | 1            | 3          | 1      |        |
|         |        |         |                |            |                |           |             |               |             |                |             |                   |              |            |        |        |
|         |        | Angles  | Length Not     | Length     |                |           |             |               |             |                |             |                   |              |            |        |        |
|         |        | Over 30 | Along Existing | Through    |                |           |             | Sensitive     |             | Archaeological | Residential |                   | Length Not   |            | Total  |        |
|         | Total  | Degrees | Transmission   | Previously | Transmission   | Stream    | Wetlands in |               | Cropland in | Sites within   | Proximity   | Public Facilities | Along Parcel | Floodplain | Length |        |
| Route   | Length | (count) | Line           | Mined Area | Line Crossings | Crossings | ROW         | Score         | ROW         | ROW            | Score       | within 500 feet   | Boundary     | in ROW     | Karst  | Total  |
| 563     | -3.03  | 2.30    |                | 1.60       | -1.49          | 1.87      |             | -10.74        | -1.08       | -2.30          |             | 0.07              | 0.92         | -2.16      | -0.27  | -13.74 |
| 186     | -4.34  | -2.72   |                | -0.15      | -0.17          | -1.87     |             | -8.87         | 3.51        | 0.59           | 1.81        | 0.07              | 0.66         |            | -0.84  | -13.61 |
| 82      | -3.96  | -3.98   | -4.77          | 2.81       | -2.82          | 1.04      |             | -6.89         | -1.50       | -2.30          | 11.06       | 0.07              | 0.32         |            | 0.71   | -13.35 |
| 412     | -6.07  | -5.23   | -6.79          | 0.54       | -0.17          | 0.42      |             | -7.13         | 0.12        | 0.59           | 12.91       | -1.22             | 0.19         |            | 0.23   | -13.28 |
| 612     | -2.20  | 1.05    | 6.20           | -10.50     | 2.49           | -3.32     |             | -1.54         | 1.52        | 0.59           | -7.43       | 1.37              | 0.24         |            | 1.35   | -13.27 |
| 280     | -4.91  | -9.00   | 0.51           | 2.81       | -0.17          | -3.74     |             | -8.29         | 0.16        | 0.59           | 4.59        | 1.37              | 0.96         |            | -0.55  | -13.15 |
| 112     | -4.31  | -1.46   |                | -0.09      | 2.49           | -4.78     |             | -0.39         |             | -2.30          |             | 0.07              | 0.42         |            | 0.25   | -13.06 |
| 571     | -1.51  | 4.82    | -0.23          | -0.10      | 3.81           | -3.95     |             | -6.69         |             | -2.30          | -6.51       | 1.37              | 0.59         |            | 0.50   | -13.04 |
| 90      | -1.24  | 1.05    | 8.13           | -0.15      | -0.17          | -3.53     |             | -5.54         | 1.76        | -2.30          | -3.73       | 0.07              | 0.08         | -1.81      | 1.48   | -13.00 |
| 545     | -2.01  | 2.30    |                | -0.15      | -1.49          | 5.20      |             | -6.80         | 0.60        | -2.30          | 1.81        | 0.07              | 0.11         |            | -0.61  | -12.99 |
| 548     | -4.40  | -1.46   |                | -0.09      | 1.16           | 3.95      |             | -1.47         | 1.61        | -2.30          | 6.44        | 0.07              | 0.42         |            | -1.62  | -12.58 |
| 271     | -1.70  | -1.46   |                | 1.65       | -2.82          | -1.04     |             | 4.78          | -5.08       | 3.48           | -12.98      | -1.22             | 0.25         |            | -1.10  | -12.54 |
| 102     | -2.72  | -2.72   |                | 1.60       | -2.82          | 1.25      |             | -8.24         | -0.29       | -2.30          | 10.13       | -1.22             | 0.45         |            | 0.50   | -12.50 |
| 377     | -1.68  | -3.98   |                | 1.60       | -0.17          | -3.74     |             | -9.78         | 2.49        | 0.59           | -1.88       | 0.07              | 1.11         |            | -0.16  | -12.29 |
| 182     | -8.57  | -6.49   | -12.98         | 0.54       | -0.17          | 1.67      | 1.38        | -8.36         | 1.04        | 0.59           | 23.08       | -1.22             | 0.48         | -1.59      | -1.61  | -12.22 |
| 389     | -3.89  | -5.23   | -5.67          | 2.81       | -2.82          | 1.46      | 4.79        | -8.81         | -0.58       | 0.59           | 6.44        | 0.07              | 0.57         | -2.20      | 0.45   | -12.02 |
| 110     | -1.20  | -0.21   | 8.41           | -0.10      | 2.49           | -4.57     | -6.88       | -4.19         | 1.92        | -2.30          | -3.73       | 0.07              | 0.11         | -2.86      | 1.26   | -11.79 |
| 419     | -4.24  | -2.72   | 3.31           | -0.09      | 2.49           | -4.36     | -7.43       | -2.32         | 3.60        | 0.59           | -3.73       | 0.07              | 0.68         | 2.41       | -0.01  | -11.75 |
| 51      | -1.63  | -0.21   | 3.27           | 1.60       | -0.17          | -4.36     | -1.82       | -7.82         | 1.70        | -2.30          | 1.81        | 0.07              | 0.85         | -2.88      | 0.15   | -11.72 |
| 86      | -5.47  | -2.72   | -5.71          | 0.54       | -0.17          | 0.00      | -3.47       | -5.02         | -0.71       | -2.30          | 17.53       | -1.22             | -0.10        | -3.59      | 0.71   | -11.70 |
| 397     | -1.17  | -0.21   | 7.23           | -0.15      | -0.17          | -3.12     | -2.59       | -7.47         | 2.68        | 0.59           | -8.35       | 0.07              | 0.34         | -0.60      | 1.21   | -11.70 |
| 642     | 0.03   | 4.82    | -10.54         | -0.10      | 1.16           | 3.95      | -0.83       | -5.59         | 1.88        | -2.30          | -3.73       | 0.07              | 0.15         | -0.41      | -0.21  | -11.66 |
| 284     | -6.42  | -7.74   | -0.44          | 0.54       | 2.49           | -4.78     | 0.93        | -6.43         | 0.94        | 0.59           | 11.06       | 0.07              | 0.55         | -2.31      | -0.55  | -11.51 |
| 25      | -3.32  | -5.23   | -9.07          | 2.81       | -2.82          | 3.54      | 1.38        | -5.23         | 0.12        | -2.30          | 11.06       | 0.07              | 0.27         | -1.53      | -0.96  | -11.22 |
| 368     | 0.34   | 1.05    | 4.66           | 1.70       | -0.17          | -2.28     | 2.37        | 6.00          | -3.80       | 3.48           | -18.52      | -1.22             | 0.29         | -4.40      | -0.71  | -11.22 |
| 409     | -2.65  | -3.98   | -4.64          | 1.60       | -2.82          | 1.67      | 5.12        | -10.16        | 0.63        | 0.59           | 5.51        | -1.22             | 0.70         | -1.78      | 0.23   | -11.19 |
| 555     | -1.56  | -0.21   | 1.90           | -10.50     | 2.49           | -0.83     | -6.33       | 0.11          | 3.14        | 0.59           |             |                   | 0.19         |            | -0.32  | -11.13 |
| 33      | -0.60  | -0.21   | 3.83           | -0.15      | -0.17          | -1.04     | -6.11       | -3.89         |             | -2.30          | -3.73       | 0.07              | 0.04         | 0.09       | -0.19  | -10.98 |
| 603     | -1.93  | 3.56    |                | -0.10      |                | 1.67      |             | -6.91         | -0.77       | -2.30          | 1.81        | 0.07              | 0.15         |            | 1.07   | -10.90 |
| 189     | -6.74  | -3.98   |                |            |                | -3.12     |             | -3.55         | 4.53        | 0.59           | 6.44        | 0.07              | 0.97         |            | -1.85  | -10.69 |
| 42      | 0.39   | 4.82    | 5.40           |            |                | -2.91     |             | 7.95          | -4.59       | 0.59           |             | -1.22             | 0.03         |            | -0.40  | -10.65 |
| 357     | -2.92  | -2.72   |                | 2.81       | -0.17          | -3.95     |             | -8.43         | 1.28        | 0.59           |             |                   | 0.97         |            | 0.05   | -10.52 |
| 417     | -1.12  | -1.46   |                | -0.10      | 2.49           | -4.15     |             | -6.11         | 2.83        | 0.59           |             | 0.07              | 0.37         |            | 1.00   | -10.48 |
| 393     | -5.40  | -3.98   |                | 0.54       | -0.17          | 0.42      |             | -6.96         |             | 0.59           |             | -1.22             | 0.16         |            | 0.45   | -10.40 |
| 93      | -3.64  | -0.21   | 4.38           |            | 2.49           | -4.78     |             | -0.20         |             | -2.30          |             | 0.07              | 0.39         |            | 0.47   | -10.16 |
| 179     | -5.15  | -5.23   | -10.83         | 1.60       |                | 2.91      |             |               |             | 0.59           |             | -1.22             | 0.99         |            | -1.61  | -10.11 |
| 348     | 0.30   | 4.82    | 4.38           |            |                | -1.24     |             | 4.65          |             | 3.48           |             | -1.22             |              |            | -0.49  | -10.02 |
| 485     | -3.87  | -3.98   |                |            | -1.49          | 3.12      |             | -8.22         | -0.37       | -2.30          |             | 1.37              | 0.54         |            | -0.77  | -9.90  |
| 29      | -4.83  | -3.98   |                | 0.54       | -0.17          | 2.50      |             |               |             | -2.30          |             | -1.22             |              |            | -0.96  | -9.68  |
| 493     | -1.15  | 1.05    | 0.24           |            | 1.16           | -1.45     |             |               |             | -2.30          |             | 1.37              | 0.30         | 0.89       | 0.00   | -9.66  |
| 83      | -2.05  | -1.46   |                | 1.60       | -2.82          | 1.25      |             | -8.05         |             | -2.30          |             | -1.22             | 0.41         |            | 0.71   | -9.61  |
| 683     | -0.39  | -0.21   | 0.72           |            | 1.16           | -3.53     |             | -6.61         | 0.56        | -2.30          |             | 2.66              |              |            | 0.68   | -9.56  |
| 281     | -2.99  | -6.49   | 1.71           | 1.60       | -0.17          | -3.53     |             | -9.46<br>7.33 | 1.46        | 0.59           | 3.66        | 0.07              | 1.06         |            | -0.55  | -9.41  |
| 187     | -3.63  | -2.72   | 1.32           | -0.10      | 2.49           | -2.91     | -1.71       | -7.33         | 3.76        | 0.59           | 1.81        | 0.07              | 0.66         | -0.85      | -0.84  | -9.40  |

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| Weights | 6      | 1       | 8              | 4          | 2              | 3         | I 5         | q         | 3           | 2              | 10          | 1                        | 1                   | 3          | 1      | 1     |
|---------|--------|---------|----------------|------------|----------------|-----------|-------------|-----------|-------------|----------------|-------------|--------------------------|---------------------|------------|--------|-------|
| Weights | 0      | - 4     | 8              | 4          | 2              |           | , <u> </u>  | 9         | 3           |                | 10          | 1                        |                     | 3          | Τ.     |       |
|         |        |         |                |            |                |           |             |           |             |                |             |                          |                     |            |        |       |
|         |        | Angles  | Length Not     | Length     |                |           |             |           |             |                |             |                          |                     |            |        |       |
|         |        | Over 30 | Along Existing | Through    |                |           |             | Sensitive |             | Archaeological | Residential |                          | <b>Length Not</b>   |            | Total  |       |
|         | Total  | Degrees | Transmission   | Previously | Transmission   | Stream    | Wetlands in | Species   | Cropland in | Sites within   | Proximity   | <b>Public Facilities</b> | <b>Along Parcel</b> | Floodplain | Length |       |
| Route   | Length | (count) | Line           | Mined Area | Line Crossings | Crossings | ROW         | Score     | ROW         | ROW            | Score       | within 500 feet          | Boundary            | in ROW     | Karst  | Total |
| 361     | -4.42  | -1.46   | 0.56           | 0.54       | 2.49           | -4.99     | -1.49       | -6.57     | 2.06        | 0.59           | 5.51        | 0.07                     | 0.56                | -2.50      | 0.05   | -8.99 |
| 218     | -4.77  | -1.46   | -5.97          | -0.15      | -2.82          | 3.74      | 0.38        | -9.09     | 1.61        | 0.59           | 10.13       | -1.22                    | 0.23                | 0.09       | -0.28  | -8.98 |
| 674     | 2.82   | 7.33    | 3.59           | 1.65       | -1.49          | -0.83     | -0.61       | 6.47      | -4.67       | 0.59           | -21.30      | 0.07                     | -0.07               | -2.66      | 0.13   | -8.96 |
| 91      | -0.53  | 1.05    | 8.58           | -0.10      | 2.49           | -4.57     | -6.55       | -4.00     | 2.01        | -2.30          | -3.73       | 0.07                     | 0.08                | -2.86      | 1.48   | -8.90 |
| 546     | -1.29  | 2.30    | -11.37         | -0.10      | 1.16           | 4.16      | 1.82        | -5.27     | 0.84        | -2.30          | 1.81        | 0.07                     | 0.10                | -0.22      | -0.61  | -8.89 |
| 400     | -3.56  | -1.46   | 3.48           | -0.09      | 2.49           | -4.36     | -7.10       | -2.13     | 3.69        | 0.59           | -3.73       | 0.07                     | 0.65                | 2.41       | 0.20   | -8.85 |
| 221     | -7.16  | -5.23   | -9.72          | -0.09      | -0.17          | 2.50      | -4.02       | -3.76     | 2.62        | 0.59           | 14.76       | -1.22                    | 0.54                | 3.11       | -1.29  | -8.55 |
| 312     | -5.33  | -7.74   | -6.33          | 2.81       | -2.82          | 1.87      | 7.43        | -8.52     | -1.75       | 0.59           | 12.91       | 0.07                     | 0.52                | -2.27      | 0.01   | -8.53 |
| 715     | -1.37  | -0.21   | -6.46          | 2.81       | -1.49          | 1.87      | 2.15        | -6.99     | -1.30       | -2.30          | 3.66        | 1.37                     | 0.24                | -1.51      | 1.07   | -8.46 |
| 159     | -6.39  | -3.98   | -11.86         | 2.81       | -2.82          | 2.71      | 5.45        | -10.03    | 0.35        | 0.59           | 16.61       | 0.07                     | 0.86                | -1.42      | -1.39  | -8.45 |
| 272     | -0.98  | -1.46   | 3.84           | 1.70       | -0.17          | -2.08     | 5.01        | 6.32      | -4.84       | 3.48           | -12.98      | -1.22                    | 0.24                | -4.22      | -1.10  | -8.44 |
| 489     | -5.38  | -2.72   | -13.60         | 0.54       | 1.16           | 2.08      | -1.05       | -6.35     | 0.41        | -2.30          | 20.30       | 0.07                     | 0.12                | -0.88      | -0.77  | -8.36 |
| 390     | -1.98  | -2.72   | -4.47          | 1.60       | -2.82          | 1.67      | 5.45        | -9.98     | 0.72        | 0.59           | 5.51        | -1.22                    | 0.67                | -1.78      | 0.45   | -8.30 |
| 320     | -2.61  | -2.72   | 6.57           | -0.15      | -0.17          | -2.70     |             | -7.16     | 1.52        | 0.59           | -1.88       | 0.07                     | 0.29                | -0.65      | 0.78   | -8.28 |
| 167     | -3.67  | 1.05    | 1.04           | -0.15      | -0.17          | -1.87     | -2.04       | -8.68     | 3.60        | 0.59           | 1.81        | 0.07                     | 0.63                | 0.20       | -0.63  | -8.21 |
| 723     | 1.35   | 4.82    | 6.44           | -0.15      | 1.16           | -2.70     | -5.34       | -5.64     | 1.96        | -2.30          | -11.13      | 1.37                     | 0.01                | 0.11       | 1.84   | -8.21 |
| 36      | -3.00  | -1.46   | 0.08           | -0.09      | 2.49           | -2.28     | -10.52      | 1.44      | 4.39        | -2.30          | 0.89        | 0.07                     | 0.34                | 3.11       | -1.21  | -8.04 |
| 687     | -1.90  | 1.05    | -0.23          | 0.54       | 3.81           | -4.57     | -4.24       | -4.75     | 1.35        | -2.30          | 2.74        | 1.37                     | 0.23                | -1.81      | 0.68   | -8.04 |
| 261     | -4.23  | -5.23   | 0.68           | 2.81       | -0.17          | -3.74     | 5.01        | -8.11     | 0.25        | 0.59           | 4.59        | 1.37                     | 0.93                | -2.16      | -0.34  | -7.75 |
| 229     | -2.64  | -2.72   | 2.42           | -10.50     | 1.16           | 1.46      | -1.16       | -0.65     | 3.14        | 3.48           | -8.35       | -1.22                    | 0.86                | 7.83       | -0.86  | -7.75 |
| 398     | -0.45  | -0.21   | 7.68           | -0.10      | 2.49           | -4.15     | -2.04       | -5.93     | 2.92        | 0.59           | -8.35       | 0.07                     | 0.34                | -1.65      | 1.21   | -7.59 |
| 26      | -1.41  | -2.72   | -7.87          | 1.60       | -2.82          | 3.74      | 2.04        | -6.40     | 1.42        | -2.30          | 10.13       | -1.22                    | 0.37                | -1.09      | -0.96  | -7.47 |
| 210     | -1.96  | -3.98   | 2.59           |            | 1.16           | 1.46      |             | -0.46     | 3.23        |                | -8.35       | -1.22                    | 0.83                | 7.83       | -0.65  | -7.37 |
| 252     | -1.02  | 2.30    | 3.56           | 1.65       | -2.82          | -1.04     | 4.79        | 4.97      | -4.99       | 3.48           | -12.98      | -1.22                    | 0.21                | -3.16      | -0.88  | -7.14 |
| 228     | -4.32  | -3.98   | 7.75           | -10.50     | 1.16           | -2.28     |             | -2.18     | 4.16        | 3.48           | 0.89        | 0.07                     | 0.31                | 5.53       | 0.01   | -7.12 |
| 316     | -6.84  | -6.49   | -7.27          | 0.54       | -0.17          | 0.83      |             | -6.65     | -0.96       | 0.59           | 19.38       | -1.22                    | 0.11                | -2.42      | 0.01   | -6.98 |
| 719     | -2.87  | 1.05    | -7.41          |            | 1.16           | 0.83      |             | -5.12     | -0.51       | -2.30          | 10.13       | 0.07                     | -0.17               | -1.69      | 1.07   | -6.92 |
| 358     | -1.00  | -0.21   |                |            |                |           |             |           |             |                | -1.88       |                          | 1.07                |            | 0.05   | -6.89 |
| 163     | -7.90  | -2.72   |                |            | -0.17          |           |             | -8.17     |             |                | 23.08       |                          | 0.45                |            | -1.39  | -6.82 |
| 34      | 0.11   | -0.21   | 4.29           |            | 2.49           |           |             | -2.35     |             |                | -3.73       |                          | 0.03                |            | -0.19  | -6.77 |
| 496     | -3.54  | -0.21   | -3.51          |            | 3.81           | -2.70     |             | -1.53     |             |                | 3.66        |                          | 0.61                | 3.89       | -1.01  | -6.73 |
| 587     | -1.71  | -2.72   |                |            | 1.16           |           |             |           |             |                | 1.81        |                          | 0.60                |            | 0.28   | -6.69 |
| 332     | -2.70  | -5.23   | -9.63          |            | -2.82          | 4.16      |             | -7.00     |             |                | 7.36        |                          | 0.49                |            | -1.05  | -6.37 |
| 486     | -1.95  | -1.46   |                |            | -1.49          | 3.33      |             | -9.37     |             |                | 12.91       | 0.07                     | 0.63                |            | -0.77  | -6.26 |
| 340     | 0.02   | -0.21   |                |            | -0.17          |           |             |           |             |                | -7.43       |                          | 0.26                |            | -0.29  | -6.13 |
| 265     | -5.74  | -3.98   |                |            | 2.49           |           |             |           |             |                | 11.06       | 0.07                     | 0.52                |            | -0.34  | -6.10 |
| 199     | -4.10  | -0.21   | -5.80          |            | -2.82          |           |             | -8.91     |             |                | 10.13       | -1.22                    | 0.20                |            | -0.06  | -6.09 |
| 578     | 1.50   | 4.82    | 2.77           |            | -1.49          | -0.62     |             | 6.79      |             |                | -15.75      |                          | -0.11               | -2.47      | -0.26  | -6.08 |
| 349     | 1.02   | 4.82    |                |            | -0.17          | -2.28     |             |           |             |                | -18.52      |                          | 0.26                |            | -0.49  | -5.81 |
| 684     | 1.52   | 2.30    |                |            | 1.16           | -3.32     |             |           |             |                | -4.66       |                          | 0.75                |            | 0.68   | -5.81 |
| 202     | -6.49  | -3.98   | -9.55          |            | -0.17          | 2.50      |             |           |             | 0.59           | 14.76       |                          | 0.51                | 3.11       | -1.07  | -5.66 |
| 293     | -4.66  | -6.49   |                |            | -2.82          | 1.87      | 1           |           |             |                | 12.91       |                          | 0.49                |            | 0.23   | -5.64 |
| 696     | -0.69  | 1.05    | -6.29          |            | -1.49          |           |             |           |             | -2.30          | 3.66        |                          | 0.21                | -1.51      | 1.29   | -5.56 |
| 494     | -0.43  | 1.05    | 0.70           | -0.10      | 3.81           | -2.49     | -4.13       | -5.33     | 3.13        | -2.30          | -0.96       | 1.37                     | 0.30                | -0.16      | 0.00   | -5.56 |

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| Weights | 6      | 1       | 8              | 4          | 2              | 3         | 5           | q         | 3           | 1 2            | 10          | I 1                      | 1            | 3          | 1      |       |
|---------|--------|---------|----------------|------------|----------------|-----------|-------------|-----------|-------------|----------------|-------------|--------------------------|--------------|------------|--------|-------|
| Weights | 0      | - 4     | 8              | 4          |                | 3         | , ,         | 9         | 3           | 2              | 10          | 1                        |              | 3          | 1      |       |
|         |        |         |                |            |                |           |             |           |             |                |             |                          |              |            |        |       |
|         |        | Angles  | Length Not     | Length     |                |           |             |           |             |                |             |                          |              |            |        |       |
|         |        | Over 30 | Along Existing | Through    |                |           |             | Sensitive |             | Archaeological | Residential |                          | Length Not   |            | Total  |       |
|         | Total  | Degrees | Transmission   | Previously | Transmission   | Stream    | Wetlands in | Species   | Cropland in | Sites within   | Proximity   | <b>Public Facilities</b> | Along Parcel | Floodplain | Length |       |
| Route   | Length | (count) | Line           | Mined Area | Line Crossings | Crossings | ROW         | Score     | ROW         | ROW            | Score       | within 500 feet          | Boundary     | in ROW     | Karst  | Total |
| 301     | -1.94  | -1.46   | 6.75           | -0.15      | -0.17          | -2.70     | 0.27        | -6.99     | 1.61        | 0.59           | -1.88       | 0.07                     | 0.26         | -0.65      | 0.99   | -5.39 |
| 323     | -5.00  | -3.98   | 2.82           | -0.09      | 2.49           | -3.95     | -4.46       | -1.83     | 2.52        | 0.59           | 2.74        | 0.07                     | 0.60         | 2.37       | -0.23  | -5.34 |
| 704     | 2.03   | 6.07    | 6.61           | -0.15      | 1.16           | -2.70     | -5.01       | -5.46     | 2.06        | -2.30          | -11.13      | 1.37                     | -0.02        | 0.11       | 2.05   | -5.32 |
| 170     | -6.06  | -0.21   | -2.71          | -0.09      | 2.49           | -3.12     | -6.44       | -3.36     | 4.62        | 0.59           | 6.44        | 0.07                     | 0.94         | 3.20       | -1.64  | -5.29 |
| 726     | -1.04  | 3.56    | 2.69           | -0.09      | 3.81           | -3.95     | -9.75       | -0.31     | 2.98        | -2.30          | -6.51       | 1.37                     | 0.32         | 3.11       | 0.83   | -5.28 |
| 153     | -1.32  | -5.23   | -1.71          | -10.50     | 1.16           | 3.95      | 0.27        | 1.19      | 4.85        | 3.48           | -8.35       | -1.22                    | 0.78         | 9.74       | -2.32  | -5.24 |
| 591     | -3.22  | -1.46   | -1.05          | 0.54       | 3.81           | -4.36     | -1.49       | -4.43     | 0.31        | -2.30          | 8.29        | 1.37                     | 0.19         | -1.62      | 0.28   | -5.15 |
| 525     | -1.57  | 2.30    | -6.59          | -0.15      | -1.49          | 4.16      | -1.93       | -7.09     | 0.98        | -2.30          | 7.36        | 0.07                     | -0.13        | 0.78       | 0.56   | -5.03 |
| 313     | -3.42  | -5.23   | -5.13          | 1.60       | -2.82          | 2.08      | 7.98        | -9.68     | -0.44       | 0.59           | 11.98       | -1.22                    | 0.62         | -1.83      | 0.01   | -4.89 |
| 675     | 3.54   | 7.33    | 4.04           | 1.70       | 1.16           | -1.87     | -0.06       | 8.00      | -4.43       | 0.59           | -21.30      | 0.07                     | -0.07        | -3.71      | 0.13   | -4.86 |
| 716     | 0.55   | 2.30    | -5.26          | 1.60       | -1.49          | 2.08      | 2.70        | -8.16     | 0.01        | -2.30          | 2.74        | 0.07                     | 0.34         | -1.07      | 1.07   | -4.82 |
| 219     | -4.05  | -1.46   | -5.52          | -0.10      | -0.17          | 2.71      | 1.04        | -7.55     | 1.85        | 0.59           | 10.13       | -1.22                    | 0.22         | -0.96      | -0.28  | -4.77 |
| 336     | -4.21  | -3.98   | -10.58         | 0.54       | -0.17          | 3.12      | 2.37        | -5.14     | 1.78        | 0.59           | 13.83       | -1.22                    | 0.08         | -0.70      | -1.05  | -4.72 |
| 160     | -4.48  | -1.46   | -10.66         | 1.60       | -2.82          | 2.91      | 6.11        | -11.20    | 1.65        |                | 15.68       | -1.22                    | 0.96         | -0.98      | -1.39  | -4.71 |
| 19      | 9.58   | -2.72   | -1.61          | -10.50     | -0.17          | 4.58      | -6.99       | 15.12     | 0.25        | 0.59           | -17.60      | -1.22                    | -1.39        | 6.63       | 0.85   | -4.61 |
| 528     | -3.96  | -1.46   | -10.35         | -0.09      | 1.16           | 2.91      | -6.33       | -1.75     | 2.00        | -2.30          | 11.98       | 0.07                     | 0.18         | 3.80       | -0.45  | -4.60 |
| 466     | -3.19  | -0.21   | -12.48         | 2.81       | -1.49          | 3.12      | 3.14        | -8.03     | -0.28       | -2.30          | 13.83       | 1.37                     | 0.50         | -0.73      | -0.56  | -4.50 |
| 58      | 0.19   | -2.72   | 5.52           | 4.62       | -2.82          | -2.28     | 2.26        | 8.36      | -6.19       | 0.59           | -6.51       | 0.07                     | 0.04         | -4.81      | -0.61  | -4.29 |
| 474     | -0.47  | 4.82    | 0.42           | -0.15      | 1.16           | -1.45     | -4.35       | -6.68     | 2.98        | -2.30          | -0.96       | 1.37                     | 0.27         | 0.89       | 0.21   | -4.26 |
| 209     | -3.64  | -2.72   | 7.92           | -10.50     | 1.16           | -2.28     | -6.88       | -2.00     | 4.25        | 3.48           | 0.89        | 0.07                     | 0.28         | 5.53       | 0.22   | -4.23 |
| 664     | 0.28   | 3.56    | 0.89           | 2.81       | 1.16           | -3.53     | -0.06       | -6.42     | 0.65        | -2.30          | -3.73       | 2.66                     | 0.62         | -1.64      | 0.89   | -4.15 |
| 724     | 2.07   | 4.82    | 6.89           | -0.10      | 3.81           | -3.74     | -4.79       | -4.10     | 2.21        | -2.30          | -11.13      | 1.37                     | 0.01         | -0.95      | 1.84   | -4.10 |
| 297     | -6.17  | -5.23   | -7.10          |            | -0.17          | 0.83      |             | -6.47     | -0.87       | 0.59           | 19.38       |                          | 0.08         |            | 0.23   | -4.10 |
| 321     | -1.89  | -2.72   | 7.02           |            | 2.49           | -3.74     | <b>.</b>    | -5.63     | 1.76        |                | -1.88       |                          | 0.29         |            | 0.78   | -4.06 |
| 700     | -2.20  | 2.30    | -7.24          | 0.54       | 1.16           | 0.83      | -1.38       | -4.95     | -0.42       | -2.30          | 10.13       | 0.07                     | -0.20        |            | 1.29   | -4.04 |
| 262     | -2.32  | -2.72   | 1.89           | 1.60       | -0.17          | -3.53     | 5.67        | -9.27     | 1.55        |                | 3.66        | 0.07                     | 1.03         | -1.72      | -0.34  | -4.01 |
| 168     | -2.95  | 1.05    | 1.49           |            | 2.49           | -2.91     | -1.38       | -7.16     | 3.85        |                | 1.81        |                          | 0.63         | -0.85      | -0.63  | -4.00 |
| 142     | -3.46  | -1.46   |                |            | -2.82          |           |             |           |             |                | 10.13       |                          | 0.15         |            | -1.74  | -3.96 |
| 536     | 0.56   | 1.05    | 1.80           |            | 2.49           |           |             |           |             |                | -11.13      |                          | 0.50         |            | -0.02  | -3.91 |
| 655     | 3.49   | 11.09   | 3.76           |            | -1.49          |           |             |           |             |                | -21.30      |                          | -0.10        |            | 0.35   | -3.56 |
| 145     | -5.85  | -5.23   | -13.85         |            | -0.17          |           |             | -1.93     |             |                | 14.76       |                          | 0.46         | 5.01       | -2.75  | -3.54 |
| 517     | 1.23   | -0.21   | 1.97           |            | 2.49           |           | <b>.</b>    | 1.54      |             |                | -11.13      |                          | 0.47         |            | 0.19   | -3.53 |
| 236     | -4.02  | -7.74   | -10.46         |            | -2.82          | 4.37      |             |           |             |                | 12.91       |                          | 0.45         |            | -1.45  | -3.49 |
| 8       | 7.45   | 1.05    | -10.00         |            | -4.14          |           |             | 6.68      |             |                | 0.89        |                          | -2.02        |            | 1.43   | -3.33 |
| 535     | -1.12  | -0.21   |                |            | 2.49           |           |             | -0.18     |             |                | -1.88       |                          | -0.05        |            | 0.85   | -3.28 |
| 244     | -1.30  | -2.72   |                |            | -0.17          |           | <b>.</b>    |           |             |                | -1.88       |                          | 0.21         |            | -0.68  | -3.26 |
| 343     | -2.37  | -1.46   |                |            | 2.49           |           |             |           |             |                | -2.81       |                          | 0.57         |            | -1.30  | -3.21 |
| 588     | 0.20   | -0.21   | 1.09           |            | 1.16           |           |             | -7.45     |             |                | 0.89        |                          | 0.70         |            | 0.28   | -3.05 |
| 253     | -0.30  | 2.30    |                |            | -0.17          | -2.08     | 5.34        |           |             |                | -12.98      |                          | 0.21         | -4.22      | -0.88  | -3.04 |
| 470     | -4.70  | 1.05    | -13.43         |            | 1.16           | 2.08      | <b>.</b>    |           |             |                | 20.30       |                          | 0.09         |            | -0.56  | -2.96 |
| 11      | 5.05   | -2.72   | -13.75         |            | -1.49          |           |             |           |             |                | 5.51        |                          | -1.71        | 1.90       | 0.42   | -2.91 |
| 62      | -1.32  | -1.46   |                |            | -0.17          |           |             |           |             |                | -0.03       |                          | -0.37        |            | -0.61  | -2.76 |
| 333     | -0.79  | -2.72   |                |            | -2.82          |           |             |           |             |                | 6.44        |                          | 0.59         |            | -1.05  | -2.63 |
| 668     | -1.23  | 4.82    | -0.06          | 0.54       | 3.81           | -4.57     | -3.80       | -4.56     | 1.44        | -2.30          | 2.74        | 1.37                     | 0.20         | -1.81      | 0.89   | -2.52 |

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| Weights   | 6            | Л              | 8              | Δ                | າ              | 3             |                 | g              | 3            | 2              | 10             | 1                        | 1                   | 3            | 1             |                |
|-----------|--------------|----------------|----------------|------------------|----------------|---------------|-----------------|----------------|--------------|----------------|----------------|--------------------------|---------------------|--------------|---------------|----------------|
| vveignts  | 0            | 4              | 0              | 4                | 2              | 3             | 3               | 9              | 3            | 2              | 10             | 1                        |                     | 3            | 1             |                |
|           |              |                |                |                  |                |               |                 |                |              |                |                |                          |                     |              |               | ,              |
|           |              | Angles         | Length Not     | Length           |                |               |                 |                |              |                |                |                          |                     |              |               |                |
|           |              | Over 30        | Along Existing | Through          |                |               |                 | Sensitive      |              | Archaeological | Residential    |                          | Length Not          |              | Total         |                |
|           | Total        | Degrees        | Transmission   | Previously       | Transmission   | Stream        | Wetlands in     | Species        | Cropland in  | Sites within   | Proximity      | <b>Public Facilities</b> | <b>Along Parcel</b> | Floodplain   | Length        |                |
| Route     | Length       | (count)        | Line           | Mined Area       | Line Crossings | Crossings     | ROW             | Score          | ROW          | ROW            | Score          | within 500 feet          | Boundary            | in ROW       | Karst         | Total          |
| 304       | -4.33        | -2.72          | 2.99           | -0.09            | 2.49           | -3.95         | -4.13           | -1.65          | 2.62         | 0.59           | 2.74           | 0.07                     | 0.57                | 2.37         | -0.02         | -2.45          |
| 707       | -0.36        | 4.82           | 2.86           |                  | 3.81           | -3.95         | -9.42           | -0.13          | 3.07         |                | -6.51          | 1.37                     | 0.29                |              | 1.04          | -2.39          |
| 506       | -0.90        | 3.56           | -6.42          |                  | -1.49          | 4.16          |                 | -6.91          | 1.07         |                | 7.36           |                          | -0.16               | 0.78         | 0.78          | -2.14          |
| 152       | -3.00        | -3.98          | 3.62           | -10.50           | 1.16           | 0.21          | -5.78           | -0.35          | 5.86         |                | 0.89           | 0.07                     | 0.23                | 7.43         | -1.45         | -2.10          |
| 619       | -2.13        | -1.46          | -6.95          | 2.81             | -1.49          | 2.29          |                 | -6.51          | -2.37        |                | 10.13          | 1.37                     | 0.16                | -1.56        | 0.85          | -2.04          |
| 579       | 2.22         | 4.82           | 3.22           | 1.70             | 1.16           | -1.66         | 2.70            | 8.32           |              |                | -15.75         | 0.07                     | -0.12               |              | -0.26         | -1.98          |
| 240       | -5.53        | -6.49          | -11.40         |                  | -0.17          | 3.33          | 5.01            | -4.82          |              |                | 19.38          | -1.22                    | 0.03                | -0.52        | -1.45         | -1.96          |
| 697       | 1.22         | 3.56           | -5.09          |                  | -1.49          | 2.08          | 3.03            | -7.97          | 0.10         |                | 2.74           | 0.07                     | 0.31                | -1.07        | 1.29          | -1.92          |
| 341       | 0.74         | -0.21          | 3.72           |                  | 2.49           | -1.45         | -0.72           | -4.11          | 4.50         |                | -7.43          | 0.07                     | 0.25                | 0.03         | -0.29         | -1.92          |
| 294       | -2.74        | -3.98          | -4.95          | 1.60             | -2.82          | 2.08          | 8.42            | -9.49          |              |                | 11.98          | -1.22                    | 0.59                | -1.83        | 0.23          | -1.88          |
| 200       | -3.38        | -0.21          | -5.35          |                  | -0.17          | 2.71          |                 |                | 1.94         |                | 10.13          | -1.22                    | 0.19                |              | -0.06         |                |
| 627       | 0.59         | 3.56           | 5.95           | -0.15<br>-0.09   | 1.16           | -2.28<br>2.01 | -2.37<br>-6.00  | -5.16          | 0.89         |                | -4.66<br>11.08 | 1.37                     | -0.07               | 0.04         | 1.62          | -1.81          |
| 509       | -3.29        | -0.21          | -10.17<br>3.72 |                  | 1.16<br>-0.17  | 2.91<br>0.83  | 1               | -1.57<br>13.58 | 2.09         |                | 11.98<br>-8.35 | 0.07<br>0.07             | 0.15                | 3.80<br>4.32 | -0.23<br>1.72 | -1.70          |
| 18<br>460 | 7.90<br>1.87 | -1.46<br>-1.46 | -2.33          | -10.50<br>-10.50 | 2.49           | 4.37          | -13.05<br>-2.15 | 3.19           | 1.26<br>4.22 |                | -8.35          | 0.07                     | -1.94<br>0.42       |              | -1.48         | -1.48<br>-1.40 |
| 477       | -2.86        | 3.56           | -2.33          | -0.09            | 3.81           | -2.70         | -8.76           | -1.35          | 3.99         |                | 3.66           |                          | 0.42                | 3.89         | -0.80         | -1.40          |
| 568       | -1.04        | 1.05           | 0.06           | 2.81             | 1.16           | -3.32         |                 | -6.10          | -0.38        |                | 1.81           | 2.66                     | 0.58                | -1.47        | 0.50          | -1.33          |
| 705       | 2.75         | 6.07           | 7.06           | -0.10            | 3.81           | -3.74         | -4.46           | -3.92          | 2.30         |                | -11.13         | 1.37                     | -0.02               |              | 2.05          | -1.21          |
| 302       | -1.22        | -1.46          | 7.20           |                  | 2.49           | -3.74         | 0.93            | -5.44          | 1.85         |                | -1.13          | 0.07                     | 0.26                | -1.70        | 0.99          | -1.21          |
| 526       | -0.85        | 2.30           | -6.14          | -0.10            | 1.16           | 3.12          | -1.38           | -5.55          | 1.23         |                | 7.36           | 0.07                     | -0.14               | -0.27        | 0.56          | -0.93          |
| 467       | -1.28        | 2.30           | -11.28         | 1.60             | -1.49          | 3.33          | <b>.</b>        | -9.19          | 1.02         |                | 12.91          | 0.07                     | 0.60                | -0.29        | -0.56         | -0.86          |
| 559       | 2.18         | 8.58           | 2.94           | 1.65             | -1.49          | -0.62         | 2.48            | 6.97           | -5.61        | 0.59           | -15.75         |                          | -0.14               | -2.47        | -0.05         | -0.67          |
| 59        | 2.10         | -0.21          | 6.72           | 3.41             | -2.82          | -2.08         | <b>.</b>        | 7.19           | -4.88        |                | -7.43          | -1.22                    | 0.14                | -4.37        | -0.61         | -0.65          |
| 623       | -3.64        | -0.21          | -7.89          | 0.54             | 1.16           | 1.25          |                 | -4.64          | -1.59        |                | 16.61          | 0.07                     | -0.25               |              | 0.85          | -0.51          |
| 665       | 2.19         | 6.07           | 2.09           |                  | 1.16           | -3.32         | 0.60            | -7.58          | 1.96         |                | -4.66          | 1.37                     | 0.72                | -1.20        | 0.89          | -0.40          |
| 247       | -3.69        | -3.98          | -1.31          | -0.09            | 2.49           | -1.45         | -3.03           | -0.01          | 4.23         |                | 2.74           | 0.07                     | 0.52                | 4.27         | -1.69         | -0.32          |
| 516       | -0.44        | 1.05           | 7.30           | -10.50           | 2.49           | -1.87         | -9.20           | 0.01           | 3.62         | 0.59           | -1.88          | 1.37                     | -0.08               | 6.22         | 1.06          | -0.28          |
| 475       | 0.25         | 4.82           | 0.87           | -0.10            | 3.81           | -2.49         | -3.80           | -5.14          | 3.22         | -2.30          | -0.96          | 1.37                     | 0.27                | -0.16        | 0.21          | -0.15          |
| 107       | -0.73        | -3.98          | 8.71           | 2.81             | -0.17          | -3.95         | -2.26           | -3.60          | 0.41         | -2.30          | 4.59           | 1.37                     | 0.09                | -2.30        | 1.26          | -0.03          |
| 449       | -0.26        | 2.30           | -10.72         | -0.15            | -1.49          | 6.66          | -0.50           | -5.25          | 2.69         | -2.30          | 7.36           | 0.07                     | -0.21               | 2.68         | -0.90         | -0.01          |
| 639       | 0.50         | 1.05           | -10.25         | 2.81             | -1.49          | 4.58          | 3.80            | -4.99          | 0.37         | -2.30          | 4.59           | 1.37                     | 0.13                | 0.15         | -0.21         | 0.10           |
| 237       | -2.10        | -5.23          | -9.25          | 1.60             | -2.82          | 4.58          |                 | -7.85          |              |                | 11.98          | -1.22                    | 0.54                | 0.07         | -1.45         | 0.13           |
| 143       | -2.74        | -1.46          | -9.65          | -0.10            | -0.17          | 5.20          | 2.37            | -5.72          |              |                | 10.13          | -1.22                    | 0.14                | 0.94         | -1.74         | 0.14           |
| 572       | -2.54        | 2.30           |                |                  | 3.81           | -4.36         | <b>.</b>        | -4.24          |              |                | 8.29           |                          | 0.16                |              | 0.50          | 0.25           |
| 452       | -2.65        | -1.46          |                |                  | 1.16           |               |                 | 0.08           |              |                | 11.98          |                          | 0.10                |              | -1.91         | 0.31           |
| 647       | 3.22         | 6.07           |                |                  | 1.16           |               |                 | -3.65          |              |                | -10.20         |                          | -0.10               |              | 0.55          | 0.33           |
| 365       | 0.81         | -2.72          |                |                  | -2.82          |               |                 |                |              |                | -10.20         | 0.07                     | 0.27                |              | -0.71         | 0.54           |
| 656       | 4.21         | 11.09          | 4.22           |                  | 1.16           |               |                 | 8.19           |              |                | -21.30         | 0.07                     | -0.10               |              | 0.35          | 0.55           |
| 98        | 2.48         | 3.56           |                |                  | -2.82          | -1.24         |                 |                |              |                | -12.98         |                          | -0.62               |              | 0.72          | 0.59           |
| 9         | 8.16         | 1.05           |                |                  | -1.49          |               | <b>.</b>        |                |              |                | 0.89           |                          | -2.03               | -2.17        | 1.43          | 0.77           |
| 245       | -0.58        | -2.72          | 2.90           |                  | 2.49           | -1.24         |                 |                |              |                | -1.88          |                          | 0.21                | 0.20         | -0.68         | 0.84           |
| 600       | -1.46        | -0.21          | -6.77          |                  | -1.49          |               |                 |                |              |                | 10.13          | 1.37                     | 0.13                |              | 1.07          | 0.85           |
| 608       | 1.26         | 4.82           | 6.13           |                  | 1.16           | -2.28         |                 | -4.98          |              |                | -4.66          |                          | -0.10               |              | 1.83          | 1.07           |
| 39        | 0.86         | 1.05           | 5.69           | 4.62             | -2.82          | -2.28         | 2.59            | 8.54           | -6.10        | 0.59           | -6.51          | 0.07                     | 0.01                | -4.81        | -0.40         | 1.12           |

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| Weights    | 6              | 4             | 8              | 4            | 2              | 3             | 5           | 9              | 3             | 2              | 10            | 1                 | 1             | 3              | 1              |              |
|------------|----------------|---------------|----------------|--------------|----------------|---------------|-------------|----------------|---------------|----------------|---------------|-------------------|---------------|----------------|----------------|--------------|
| 22 0.3.100 |                | <u> </u>      |                |              | _              |               |             |                |               | _              |               | _                 |               |                | _              |              |
|            |                |               |                |              |                |               |             |                |               |                |               |                   |               |                |                |              |
|            |                | Angles        | Length Not     | Length       |                |               |             |                |               |                |               |                   | _             |                |                |              |
|            |                | Over 30       | Along Existing | Through      | l              |               |             | Sensitive      |               | Archaeological | Residential   |                   | Length Not    |                | Total          |              |
|            | Total          | Degrees       | Transmission   | Previously   | Transmission   | Stream        | Wetlands in | -              | Cropland in   |                | Proximity     | Public Facilities | Along Parcel  | Floodplain     | Length         |              |
| Route      | Length         | (count)       | Line           | Mined Area   | Line Crossings | Crossings     | ROW         | Score          | ROW           | ROW            | Score         | within 500 feet   | Boundary      | in ROW         | Karst          | Total        |
| 630        | -1.81          | 2.30          | 2.20           | -0.09        | 3.81           | -3.53         |             | 0.17           | 1.90          | -2.30          | -0.03         | 1.37              | 0.24          | 3.06           | 0.61           | 1.13         |
| 414        | -0.65          | -5.23         | 7.80           | 2.81         | -0.17<br>2.49  | -3.53         |             | -5.52          | 1.33          | 0.59<br>-2.30  | -0.03         | 1.37<br>0.07      | 0.35          | -1.09          | 1.00           | 1.27<br>1.51 |
| 111<br>620 | -2.24<br>-0.22 | -2.72<br>1.05 | 7.76<br>-5.75  | 0.54<br>1.60 |                | -4.99<br>2.50 |             | -1.73<br>-7.68 | 1.19<br>-1.07 | -2.30          | 11.06<br>9.21 | 0.07              | -0.32<br>0.26 | -2.46<br>-1.12 | 1.26<br>0.85   | 1.51         |
| 643        | -0.22          | 2.30          | -11.19         | 0.54         | 1.16           | 3.54          |             | -3.13          | 1.15          | -2.30          | 11.06         |                   | -0.28         | 0.00           | -0.21          | 1.64         |
| 459        | 0.20           | -0.21         | 3.00           | -10.50       |                |               |             | 1.66           | 5.23          | 0.59           | -1.88         | 1.37              | -0.28         | 8.12           |                | 1.74         |
| 405        | 2.56           | 2.30          | 10.68          | 1.65         |                | -0.83         |             | 7.56           | -3.91         | 3.48           | -17.60        | -1.22             | -0.36         | -2.09          |                | 1.89         |
| 507        | -0.18          | 3.56          | -5.97          | -0.10        |                | 3.12          |             | -5.37          |               | -2.30          | 7.36          |                   | -0.17         | -0.27          | 0.78           | 1.97         |
| 369        | -0.70          | -1.46         | 4.01           | 2.35         |                | -2.70         |             | 8.45           | -4.52         | 3.48           | -3.73         | -1.22             | -0.14         | -4.00          | -0.71          | 2.08         |
| 628        | 1.30           | 3.56          | 6.40           | -0.10        |                | -3.32         |             | -3.62          |               |                | -4.66         | 1.37              | -0.07         | -1.01          | 1.62           | 2.29         |
| 184        | -3.16          | -6.49         | 1.61           | 2.81         | -0.17          | -2.28         |             | -6.74          | 2.25          | 0.59           | 10.13         | 1.37              | 0.64          | -0.29          | -0.84          | 2.35         |
| 569        | 0.88           | 3.56          | 1.27           | 1.60         |                |               |             | -7.26          | 0.92          | -2.30          | 0.89          | 1.37              | 0.67          | -1.03          | 0.50           | 2.35         |
| 604        | -2.97          | 1.05          | -7.72          | 0.54         | 1.16           | 1.25          | 1.60        | -4.46          | -1.50         | -2.30          | 16.61         | 0.07              | -0.28         | -1.73          | 1.07           | 2.37         |
| 43         | -0.65          | 2.30          | 4.75           | 2.35         | -0.17          | -3.32         | -1.27       | 10.41          | -5.31         | 0.59           | -0.03         | -1.22             | -0.40         | -4.98          | -0.40          | 2.64         |
| 418        | -2.16          | -3.98         | 6.86           | 0.54         | 2.49           | -4.57         | -1.60       | -3.65          | 2.11          | 0.59           | 6.44          | 0.07              | -0.06         | -1.25          | 1.00           | 2.82         |
| 88         | -0.06          | -2.72         | 8.88           | 2.81         | -0.17          | -3.95         | -1.93       | -3.41          | 0.50          | -2.30          | 4.59          |                   | 0.06          | -2.30          | 1.48           | 2.86         |
| 175        | 0.06           | 1.05          | 4.48           | 1.65         | -2.82          | 0.42          |             | 6.33           | -2.98         | 3.48           | -7.43         | -1.22             | -0.07         | -1.31          | -1.39          | 2.95         |
| 543        | -0.82          | -1.46         | -11.07         | 2.81         | -1.49          |               |             | -4.67          | -0.67         | -2.30          | 10.13         | 1.37              | 0.09          | 0.34           |                | 2.98         |
| 551        | 1.90           | 3.56          | 1.82           | -0.15        |                |               |             | -3.33          | 2.59          | -2.30          | -4.66         |                   | -0.15         | 1.96           |                | 3.22         |
| 650        | 0.83           | 4.82          | -1.10          | -0.09        | 3.81           | -1.24         |             | 1.69           | 4.64          | -2.30          | -5.58         | 1.37              | 0.21          | 4.79           | -0.46          | 3.28         |
| 560        | 2.89           | 8.58          | 3.39           | 1.70         |                | -1.66         |             | 8.51           | -5.37         | 0.59           | -15.75        | 0.07              | -0.15         | -3.52          | -0.05          | 3.43         |
| 269        | -0.51          | -5.23         | 4.13           | 4.62         |                | -1.45         |             | 6.91           |               | 3.48           | -4.66         |                   | 0.22          | -3.65          | -1.10          | 3.43         |
| 79         | 3.16           | 4.82          | 11.75          | 1.65         |                | -1.24         |             | 9.67           | -4.74         | 0.59           | -12.98        | -1.22             | -0.65         | -3.30          |                | 3.48<br>3.60 |
| 108        | 1.18           | -1.46         | 9.91           | 1.60         |                | -3.74         |             | -4.76          | 1.71          | -2.30          | 3.66          |                   | 0.19          | -1.86          | 1.26           |              |
| 640<br>188 | 2.41<br>-4.67  | 3.56<br>-5.23 | -9.05<br>0.66  | 1.60<br>0.54 | -1.49<br>2.49  | 4.78<br>-3.32 |             | -6.15<br>-4.88 | 1.67<br>3.04  | -2.30<br>0.59  | 3.66<br>16.61 | 0.07<br>0.07      | 0.23<br>0.23  | 0.59<br>-0.46  | -0.21<br>-0.84 | 3.73<br>3.88 |
| 611        | -1.13          | 3.56          | 2.38           | -0.09        |                | -3.53         |             | 0.36           |               | -2.30          | -0.03         | 1.37              | 0.23          | 3.06           |                | 4.02         |
| 450        | 0.46           | 2.30          | -10.27         |              |                |               |             |                |               |                |               |                   |               |                |                |              |
| 395        | 0.40           | -3.98         | 7.97           |              |                |               |             |                |               |                |               |                   |               |                |                | 4.16         |
| 366        | 2.73           | -0.21         | 6.16           |              |                |               |             |                |               |                | -11.13        |                   |               | -3.40          |                | 4.18         |
| 92         | -1.56          | -1.46         | 7.93           |              |                |               |             |                |               |                | 11.06         |                   | -0.35         |                |                | 4.40         |
| 648        | 3.94           | 6.07          | 3.10           |              |                |               |             |                |               |                | -10.20        |                   |               |                |                | 4.43         |
| 601        | 0.45           | 2.30          | -5.57          |              |                |               |             |                |               |                | 9.21          | 0.07              | 0.23          | -1.12          |                | 4.48         |
| 547        | -2.33          | -0.21         | -12.02         | 0.54         | 1.16           | 3.74          | 2.70        | -2.81          | 0.12          | -2.30          | 16.61         | 0.07              | -0.33         | 0.17           | -0.61          | 4.51         |
| 99         | 3.20           | 3.56          | 12.03          | 1.70         | -0.17          | -2.28         | -1.93       | 11.03          | -4.58         | 0.59           | -12.98        | -1.22             | -0.63         | -4.36          | 0.72           | 4.69         |
| 40         | 2.78           | 3.56          | 6.89           | 3.41         | -2.82          | -2.08         | 3.14        | 7.38           | -4.79         | 0.59           | -7.43         | -1.22             | 0.11          | -4.37          | -0.40          | 4.75         |
| 386        | 3.23           | 3.56          | 10.85          | 1.65         | -2.82          | -0.83         | 2.37        | 7.74           | -3.82         | 3.48           | -17.60        | -1.22             | -0.40         | -2.09          | 0.67           | 4.78         |
| 415        | 1.26           | -2.72         | 9.00           |              |                |               |             | -6.69          |               |                | -0.96         |                   | 0.45          | -0.65          | 1.00           | 4.91         |
| 273        | -2.01          | -3.98         | 3.19           |              |                |               |             |                |               |                | 1.81          | -1.22             | -0.19         | -3.82          | -1.10          | 4.95         |
| 31         | 0.59           | -3.98         | 4.58           |              |                |               |             |                |               |                | 4.59          |                   |               |                | <del></del>    | 4.99         |
| 609        | 1.98           | 4.82          | 6.58           |              |                |               |             | -3.44          |               |                | -4.66         |                   |               |                | 1.83           | 5.18         |
| 22         | 3.80           | 3.56          | 7.45           |              |                |               |             | 11.32          |               |                | -12.98        |                   |               |                |                | 5.61         |
| 399        | -1.49          | -2.72         | 7.03           |              |                |               |             |                |               | 0.59           | 6.44          |                   | -0.09         |                |                | 5.70         |
| 346        | 1.49           | 1.05          | 5.13           | 4.62         | -2.82          | -1.66         | 7.32        | 6.77           | -5.22         | 3.48           | -10.20        | 0.07              | 0.24          | -3.84          | -0.49          | 5.95         |

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| Weights    | 6             | 4             | 8              | Д            | 2              | 3              | 5           | 9              | 3              | 2              | 10          | 1                 | 1              | 3  | 1             |              |
|------------|---------------|---------------|----------------|--------------|----------------|----------------|-------------|----------------|----------------|----------------|-------------|-------------------|----------------|--|---------------|--------------|
| Weights    |               | -             |                | -            |                |                |             |                |                |                | 10          | _                 |                | <u> </u>   |               |              |
|            |               |               |                |              |                |                |             |                |                |                |             |                   |                |  |               |              |
|            |               | Angles        | Length Not     | Length       |                |                |             |                |                |                |             |                   |                |  |               |              |
|            |               | Over 30       | Along Existing | Through      |                |                |             | Sensitive      |                | Archaeological | Residential |                   | Length Not     |  | Total         |              |
|            | Total         | Degrees       | Transmission   | Previously   | Transmission   | Stream         | Wetlands in | Species        | Cropland in    | Sites within   | Proximity   | Public Facilities | Along Parcel   | Floodplain                                       | Length        |              |
| Route      | Length        | (count)       | Line           | Mined Area   | Line Crossings | Crossings      | ROW         | Score          | ROW            | ROW            | Score       | within 500 feet   | Boundary       | in ROW   | Karst         | Total        |
| 406        | 3.28          | 2.30          | 11.13          | 1.70         | -0.17          | -1.87          | 2.59        | 9.09           |                | 3.48           |             | -1.22             | -0.37          | -3.15  | 0.45          | 5.99         |
| 185        | -1.24         | -3.98         | 2.81           | 1.60         | -0.17          | -2.08          |             | -7.91          | 3.55           | 0.59           |             | 0.07              | 0.74           |  | -0.84         | 5.99         |
| 554        | -0.49         | 2.30          | -1.92          | -0.09        | 3.81           | -1.04          |             | 2.01           | 3.61           | -2.30          |             | 1.37              | 0.16           |  | -0.85         | 6.04         |
| 491        | 0.04          | -2.72         | 0.99           | 2.81         | 1.16           | -1.87          | 0.49        | -4.74          | 1.62           | -2.30          |             |                   |                |  | 0.00          | 6.19         |
| 89         | 1.86          | -0.21         | 10.08          | 1.60         | -0.17          | -3.74          |             | -4.58          |                | -2.30          |             |                   | 0.16           |  | 1.48          | 6.49         |
| 35         | -0.92         | -2.72         | 3.63           | 0.54         | 2.49           | -2.49          |             | 0.11           | 2.90           | -2.30          |             | 0.07              | -0.40          | -0.55  | -0.19         | 6.53         |
| 544        | 1.09          | 1.05          | -9.87          | 1.60         | -1.49          | 4.99           |             | -5.83          | 0.64           | -2.30          |             | 0.07              | 0.19           | 0.78   | -0.61         | 6.62         |
| 482        | 3.25          | 4.82          | 3.86           | 1.65         | -1.49          | 0.83           |             | 8.34           |                | 0.59           |             | 0.07              | -0.43          |  | -0.55         | 6.81         |
| 672        | 4.01          | 3.56          | 4.34           | 4.62         | -1.49          | -1.24          |             | 8.60           |                | 0.59           |             | 1.37              | -0.09          |  | 0.13          | 6.92         |
| 216        | -3.58         | -5.23         | -5.23          | 2.81         | -2.82          | 3.33           |             | -6.97          | 0.35           | 0.59           |             | 0.07              | 0.20           | -0.40  | -0.28         | 6.98         |
| 176        | 0.78          | 1.05          | 4.94           | 1.70         | -0.17          | -0.62          |             | 7.87           | -2.74          | 3.48           |             |                   | -0.08          |  | -1.39         | 7.05         |
| 270        | 1.41          | -2.72         | 5.33           | 3.41         | -2.82          | -1.24          |             | 5.75           |                | 3.48           |             |                   | 0.32           |  | -1.10         | 7.07         |
| 224        | -0.86         | -0.21         | 7.67           | -0.15        | -0.17          | -1.24          |             | -5.61          | 3.61           | 0.59           |             |                   | -0.03          | 1.22   | 0.49          | 7.23         |
| 552        | 2.62          | 3.56          | 2.28           | -0.10        | 3.81           | -0.83          |             | -1.79          |                | -2.30          |             |                   | -0.15          | 0.91   | 0.16          | 7.32         |
| 350        | -0.02         | 2.30          | 4.18           | 2.35         | -0.17          | -2.70          |             | 8.64           | -4.43          | 3.48           |             |                   | -0.17          | <del>                                     </del> | -0.49         | 7.49         |
| 80         | 3.88          | 4.82          | 12.21          | 1.70         | -0.17          | -2.28          |             | 11.21          | -4.49          | 0.59           |             | -1.22             | -0.66          | -4.36  | 0.93          | 7.58         |
| 721        | 2.54          | 1.05          | 7.18           | 2.81         | 1.16           | -3.12          |             | -3.52          | 0.70           | -2.30          |             | 2.66              | -0.01          | -0.38  | 1.84          | 7.64         |
| 318        | -1.42         | -6.49         | 7.32           | 2.81         | -0.17          | -3.12          |             | -5.05          |                | 0.59           |             | 1.37              | 0.27           |  | 0.78          | 7.68         |
| 165        | -2.48         | -2.72         | 1.78           | 2.81         | -0.17          | -2.28          |             | -6.56          |                | 0.59           |             | 1.37              | 0.61           | -0.29  | -0.63         | 7.76         |
| 396        | 1.93          | -1.46         | 9.18           | 1.60<br>0.54 | -0.17          | -3.32          |             | -6.50<br>-2.88 |                | 0.59           |             |                   | 0.42           | -0.65  | 1.21<br>-0.01 | 7.80         |
| 495<br>712 | -1.47<br>5.75 | -1.46<br>8.58 | 0.04<br>10.06  | 1.65         | 3.81<br>-1.49  | -2.91<br>-0.41 |             | 9.57           | 2.41<br>-4.53  | -2.30<br>0.59  |             | 1.37<br>0.07      | -0.13<br>-0.72 | 0.25<br>-1.40                                    | 1.29          | 7.84<br>8.25 |
| 309        | 1.79          | 1.05          | 10.19          | 1.65         | -2.82          | -0.41          |             | 8.04           | -4.33<br>-4.98 | 3.48           |             | -1.22             | -0.72          | <del>                                     </del> | 0.23          | 8.30         |
| 156        | 0.73          | 4.82          | 4.66           | 1.65         | -2.82          | 0.41           |             | 6.52           |                | 3.48           |             | -1.22             | -0.44          |  | -1.17         | 8.36         |
| 220        | -5.09         | -3.98         | -6.18          | 0.54         | -0.17          | 2.29           |             | -5.10          |                | 0.59           |             | -1.22             | -0.10          | -0.55  | -0.28         | 8.53         |
| 676        | 2.50          | 4.82          | 3.39           | 2.35         | 1.16           | -2.28          |             | 10.46          | -5.15          | 0.59           | -6.51       | 0.07              | -0.50          | -3.30  | 0.13          | 8.55         |
| 32         | 2.50          | -1.46         | 5.78           |              |                | -1.24          |             | -2.92          |                | -2.30          |             |                   | 0.11           |  | -0.19         | 8.62         |
| 250        | 0.17          | -1.46         | 4.30           |              |                | -1.45          |             |                |                | 3.48           |             |                   | 0.11           |  | -0.13         | 8.83         |
| 387        | 3.95          | 3.56          | 11.30          |              |                | -1.87          |             | 9.28           |                | 3.48           |             |                   |                |  | 0.67          | 8.88         |
| 322        | -2.93         | -5.23         | 6.37           | 0.54         | 2.49           | -4.15          |             |                |                | 0.59           |             | 0.07              | -0.14          |  | 0.78          | 9.23         |
| 725        | 1.04          | 2.30          | 6.24           | 0.54         | 3.81           | -4.15          |             |                |                | -2.30          |             |                   | -0.42          |  | 1.84          | 9.28         |
| 169        | -3.99         | -1.46         | 0.84           | 0.54         | 2.49           | -3.32          |             | -4.70          |                | 0.59           |             | 0.07              | 0.20           |  | -0.63         | 9.29         |
| 347        | 3.40          | 3.56          | 6.33           | 3.41         | -2.82          | -1.45          |             | 5.61           |                | 3.48           |             |                   | 0.34           |  | -0.49         | 9.58         |
| 23         | 4.51          | 3.56          | 7.90           | 1.70         |                | 0.21           |             | 12.86          |                | 0.59           |             |                   | -0.71          |  | -0.74         | 9.70         |
| 576        | 2.69          | 1.05          | 3.51           | 4.62         | -1.49          | -1.04          |             | 8.92           |                | 0.59           |             |                   |                |  | -0.26         | 9.79         |
| 338        | 1.21          | -3.98         | 4.02           | 2.81         | -0.17          | -0.83          |             |                |                | 0.59           |             |                   |                |  | -0.29         | 9.84         |
| 197        | -2.91         | -3.98         | -5.06          | 2.81         | -2.82          | 3.33           |             | -6.79          |                | 0.59           |             | 0.07              | 0.17           |  | -0.06         | 9.87         |
| 492        | 1.95          | -0.21         | 2.19           | 1.60         | 1.16           | -1.66          |             | -5.90          |                | -2.30          |             |                   | 0.38           | 0.84   | 0.00          | 9.94         |
| 205        | -0.19         | 1.05          | 7.84           | -0.15        |                | -1.24          |             | -5.44          |                | 0.59           |             |                   | -0.06          |  | 0.71          | 10.11        |
| 227        | -3.25         | -1.46         | 3.92           | -0.09        |                | -2.49          |             |                |                | 0.59           |             |                   | 0.28           |  | -0.52         | 10.16        |
| 254        | -1.34         | -0.21         | 3.36           |              |                | -2.49          |             | 8.96           |                | 3.48           |             | -1.22             | -0.22          |  | -0.88         | 10.35        |
| 329        | 4.42          | 3.56          | 6.89           |              | -2.82          | 1.87           |             | 9.55           |                | 3.48           |             | -1.22             |                |  | -0.83         | 10.45        |
| 299        | -0.75         | -5.23         | 7.49           |              | -0.17          | -3.12          |             |                |                | 0.59           |             |                   | 0.24           |  | 0.99          | 10.57        |
| 217        | -1.67         | -2.72         | -4.03          | 1.60         |                | 3.54           |             |                |                |                |             |                   |                |  | -0.28         | 10.62        |

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| Weights    | 6             | 4              | 8              | А              | 2              | 3              | 5             | 9              |             | 1 2            | 10           | 1                 | 1              | 1 2            | 1      |                |
|------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|-------------|----------------|--------------|-------------------|----------------|----------------|--------|----------------|
| Weights    | U             | 7              | 0              |                |                |                |               |                |             | 2              | 10           |                   |                |                |        |                |
|            |               |                |                |                |                |                |               |                |             |                |              |                   |                |                |        |                |
|            |               | Angles         | Length Not     | Length         |                |                |               |                |             |                |              |                   |                |                |        |                |
|            |               | Over 30        | Along Existing | Through        |                |                |               | Sensitive      |             | Archaeological | Residential  |                   | Length Not     |                | Total  |                |
|            | Total         | Degrees        | Transmission   | Previously     | Transmission   | Stream         | Wetlands in   | Species        | Cropland in | Sites within   | Proximity    | Public Facilities | Along Parcel   | Floodplain     | Length |                |
| Route      | Length        | (count)        | Line           | Mined Area     | Line Crossings | Crossings      | ROW           | Score          | ROW         | ROW            | Score        | within 500 feet   | Boundary       | in ROW         | Karst  | Total          |
| 673        | 5.92          | 6.07           | 5.54           | 3.41           | -1.49          | -1.04          | 5.23          | 7.44           |             |                | -13.90       |                   | 0.01           | -2.71          | 0.13   | 10.65          |
| 702        | 3.22          | 2.30           | 7.36           | 2.81           | 1.16           |                |               | -3.33          |             |                | -2.81        | 2.66              | -0.04          | -0.38          |        | 10.65          |
| 523        | -0.38         | -1.46          | -5.85          | 2.81           | -1.49          | 3.74           | 3.25          | -4.96          |             |                | 15.68        |                   | -0.15          | 0.29           |        | 10.83          |
| 483        | 3.97          | 4.82           | 4.32           | 1.70           | 1.16           |                | 0.93          | 9.87           |             |                | -10.20       | 0.07              | -0.44          | -1.65          | -0.55  | 11.02          |
| 531        | 2.34          | 3.56           | 7.05           | -0.15          | 1.16           | -0.83          |               | -3.60          |             |                | 0.89         |                   | -0.39          | 1.91           | 1.33   | 11.07          |
| 693        | 6.43          | 9.84           | 10.23          | 1.65           | -1.49          | -0.41          | -0.06         | 9.75           |             | 0.59           | -20.37       | 0.07              | -0.75          | -1.40          | -      | 11.14          |
| 290        | 2.46          | 2.30           | 10.37          | 1.65           | -2.82          | -0.41          | 5.34          | 8.22           |             |                | -11.13       | -1.22             | -0.47          | -2.14          | -      | 11.19          |
| 319        | 0.49          | -3.98          | 8.52           | 1.60           | -0.17          | -2.91          | 5.78          | -6.20          |             |                | 5.51         | 0.07              | 0.37           | -0.70          |        | 11.32          |
| 580<br>225 | 1.18          | 2.30           | 2.56           | 2.35<br>-0.10  | 1.16           | -2.08<br>-2.28 | 3.47<br>-1.27 | 10.78<br>-4.08 |             |                | -0.96        |                   | -0.55          | -3.12<br>0.17  |        | 11.33<br>11.33 |
| 342        | -0.14         | -0.21<br>-2.72 | 8.12           | -0.10<br>0.54  | 2.49<br>2.49   |                |               |                |             |                | 3.66<br>7.36 |                   | -0.03          |                |        |                |
| 722        | -0.30<br>4.46 | 3.56           | 3.07<br>8.38   | 1.60           | 1.16           |                | 0.05<br>0.49  | -1.66<br>-4.68 |             | -2.30          | -3.73        | 1.37              | -0.18<br>0.09  | 0.44<br>0.06   |        | 11.38<br>11.39 |
| 166        | -0.57         | -0.21          | 2.98           | 1.60           | -0.17          | -2.91          |               | -7.72          |             | 0.59           | 9.21         | 0.07              | 0.03           | 0.00           |        | 11.39          |
| 201        | -4.42         | -0.21          | -6.00          | 0.54           | -0.17          | 2.29           |               | -4.92          |             |                | 24.93        | -1.22             | -0.24          | -0.55          | 1      | 11.39          |
| 472        | 0.72          | 1.05           | 1.16           | 2.81           | 1.16           | -1.87          | 0.82          | -4.55          |             |                | 7.36         |                   | 0.25           | 0.40           |        | 11.41          |
| 140        | -2.26         | -5.23          | -9.36          | 2.81           | -2.82          | 5.82           | 6.99          | -5.13          |             | 0.59           | 18.45        |                   | 0.13           | 1.50           |        | 11.89          |
| 303        | -2.26         | -3.98          | 6.55           | 0.54           | 2.49           |                |               | -3.00          |             |                | 12.91        | 0.07              | -0.17          | -1.29          |        | 12.11          |
| 706        | 1.71          | 3.56           | 6.41           | 0.54           | 3.81           | -4.15          |               | -1.47          |             | -2.30          | 3.66         | 1.37              | -0.45          | -0.55          |        | 12.17          |
| 463        | 3.93          | 8.58           | 4.04           | 1.65           | -1.49          | 0.83           |               | 8.52           |             | 0.59           | -10.20       | 0.07              | -0.46          |                |        | 12.21          |
| 148        | 0.45          | -0.21          | 3.55           | -0.15          | -0.17          | 1.25           | -0.39         | -3.78          |             |                | 3.66         |                   | -0.11          | 3.12           |        | 12.25          |
| 653        | 4.69          | 7.33           | 4.51           | 4.62           | -1.49          | -1.24          | 4.90          | 8.79           |             |                | -12.98       | 1.37              | -0.12          | -3.13          |        | 12.33          |
| 310        | 2.51          | 1.05           | 10.65          | 1.70           | -0.17          | -1.45          | 5.56          | 9.58           |             |                | -11.13       | -1.22             | -0.45          | -3.19          |        | 12.40          |
| 157        | 1.45          | 4.82           | 5.11           | 1.70           | -0.17          | -0.62          | 3.58          | 8.05           | -2.65       | 3.48           | -7.43        | -1.22             | -0.11          | -2.36          | -1.17  | 12.45          |
| 251        | 2.08          | 1.05           | 5.51           | 3.41           | -2.82          | -1.24          | 10.63         | 5.93           | -4.95       | 3.48           | -5.58        | -1.22             | 0.29           | -3.21          | -0.88  | 12.47          |
| 713        | 6.47          | 8.58           | 10.51          | 1.70           | 1.16           | -1.45          | 0.27          | 11.10          | -4.29       | 0.59           | -20.37       | 0.07              | -0.73          | -2.44          | 1.29   | 12.47          |
| 527        | -1.89         | -0.21          | -6.79          | 0.54           | 1.16           | 2.71           | -0.50         | -3.09          | 0.51        | -2.30          | 22.15        | 0.07              | -0.57          | 0.14           | 0.56   | 12.49          |
| 242        | -0.11         | -6.49          | 3.19           | 2.81           | -0.17          |                | 6.55          | -3.20          |             |                | 6.44         |                   | 0.19           | 0.77           | -0.68  | 12.59          |
| 6          | 8.64          | -2.72          | -9.25          | 2.81           | -4.14          |                |               |                |             |                |              | 0.07              | -2.04          |                |        |                |
| 14         | 11.36         | 2.30           | 3.65           | -0.15          | -1.49          |                |               | 10.15          |             |                |              |                   | -2.27          | 0.01           | 2.20   | 12.88          |
| 208        | -2.58         | -0.21          | 4.09           |                | 2.49           |                |               |                |             |                |              |                   |                | 4.22           |        | 13.05          |
| 233        | 3.10          | 1.05           | 6.07           | 1.65           | -2.82          |                |               | 9.87           |             |                |              |                   | -0.52          | -0.24          |        | 13.20          |
| 476        | -0.79         | 2.30           | 0.22           | 0.54           | 3.81           |                |               |                |             |                |              |                   | -0.16          |                |        | 13.25          |
| 577        | 4.60          | 3.56           | 4.71           | 3.41           | -1.49          |                |               | 7.76           |             |                |              |                   | -0.04          | -2.52          | 1      | 13.42          |
| 339        | 3.12          | -1.46          | 5.22           | 1.60           | -0.17          |                |               |                |             |                |              |                   | 0.34           |                |        | 13.47          |
| 198        | -0.99         | -1.46          | -3.85          | 1.60           | -2.82          |                |               |                |             |                |              |                   |                | 0.04           | -      |                |
| 144        | -3.78         | -3.98          | -10.30         | 0.54           | -0.17          |                |               | -3.27          |             |                |              |                   |                |                |        | 13.54          |
| 504        | 0.29          | -0.21          | -5.67          | 2.81           | -1.49          |                |               |                |             |                |              |                   | -0.19          | 0.29           |        | 13.72          |
| 657        | 3.17          | 8.58           | 3.57           | 2.35           | 1.16           |                |               | 10.64          |             |                |              | 0.07              | -0.53          |                |        | 13.95          |
| 512<br>534 | 3.01<br>-0.06 | 4.82<br>2.30   | 7.23<br>3.30   | -0.15<br>-0.09 | 1.16<br>3.81   |                |               | -3.43<br>1.72  |             |                |              | 1.37<br>1.37      | -0.42<br>-0.08 |                |        | 13.96          |
| 625        |               |                |                | -0.09<br>2.81  |                |                |               |                |             |                |              |                   |                |                |        | 14.01<br>14.06 |
| 10         | 1.77<br>7.13  | -0.21<br>-1.46 | 6.70<br>-10.20 | 0.54           | 1.16<br>-1.49  |                |               | -3.03<br>10.66 |             |                |              |                   | -0.09<br>-2.46 | -0.43<br>-1.76 |        | 14.06          |
| 300        | 1.16          | -1.46          | 8.69           | 1.60           | -1.49          |                | 6.11          | -6.02          |             | 0.59           |              | 0.07              | 0.34           | -0.70          |        |                |
| 206        | 0.53          | 1.05           | 8.30           | -0.10          | 2.49           |                |               |                |             |                |              |                   | -0.06          |                |        | 14.21          |
| 200        | 0.53          | 1.05           | 8.30           | -0.10          | 2.49           | -2.28          | -0.94         | -3.89          | 3.94        | 0.59           | 3.00         | 0.07              | -0.06          | 0.17           | 0.71   | 14.22          |

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| Weights   | 6            | 4             | 8              | Д             | 2              | 3            | 5           | 9              | 3            | 2              | 10          | 1                 | 1              | 3      | 1             |                |
|-----------|--------------|---------------|----------------|---------------|----------------|--------------|-------------|----------------|--------------|----------------|-------------|-------------------|----------------|--------|---------------|----------------|
| Weights   |              | -             |                | -             |                |              |             |                |              |                | 10          |                   | _              |        |               |                |
|           |              |               |                |               |                |              |             |                |              |                |             |                   |                |        |               |                |
|           |              | Angles        | Length Not     | Length        |                |              |             |                |              |                |             |                   |                |        |               |                |
|           |              | Over 30       | Along Existing | Through       |                |              |             | Sensitive      |              | Archaeological | Residential |                   | Length Not     |        | Total         |                |
|           | Total        | Degrees       | Transmission   | Previously    | Transmission   | Stream       | Wetlands in | Species        | Cropland in  | Sites within   | Proximity   | Public Facilities | Along Parcel   | -      | Length        |                |
| Route     | Length       | (count)       | Line           | Mined Area    | Line Crossings | Crossings    | ROW         | Score          | ROW          | ROW            | Score       | within 500 feet   | Boundary       | in ROW | Karst         | Total          |
| 246       | -1.62        | -5.23         | 2.24           | 0.54          | 2.49           | -1.66        |             | -1.34          | 2.74         | 0.59           |             | 0.07              | -0.22          |        | -0.68         | 14.24          |
| 703       | 5.13         | 4.82          | 8.56           | 1.60          | 1.16           | -2.91        |             | -4.50          |              | -2.30          |             |                   | 0.06           |        | 2.05          | 14.28          |
| 330       | 5.14         | 3.56          | 7.34           | 1.70          | -0.17          | 0.83         |             | 11.09          |              | 3.48           |             | -1.22             |                |        | -0.83         | 14.55          |
| 524       | 1.53         | 1.05          | -4.65          | 1.60          | -1.49          | 3.95         |             | -6.13          | 1.02         | -2.30          |             |                   | -0.06          |        | 0.56          | 14.57          |
| 616       | 4.99         | 7.33          | 9.57           | 1.65          | -1.49          | 0.00         |             | 10.05          | -5.61        | 0.59           |             |                   | -0.80          |        | 1.07          | 14.66          |
| 151       | -1.94        | -1.46         | -0.21          | -0.09         | 2.49           | 0.00         | -4.90       | 1.54           | 6.33         | 0.59           |             |                   | 0.20           |        | -1.98         | 15.07          |
| 557       | 3.37         | 4.82          | 3.69           | 4.62          | -1.49          | -1.04        |             | 9.11           | -6.88        | 0.59           |             |                   | -0.17          |        | -0.05         | 15.19          |
| 532       | 3.05         | 3.56          | 7.50           | -0.10         | 3.81           | -1.87        |             | -2.07          | 3.22         | -2.30          |             |                   | -0.39          |        | 1.33          | 15.28          |
| 291       | 3.18         | 2.30          | 10.82          | 1.70          | -0.17          | -1.45        |             | 9.76           |              | 3.48           |             |                   |                |        | 0.45          | 15.29          |
| 473       | 2.63         | 3.56          | 2.36           | 1.60          | 1.16           | -1.66        |             | -5.71          | 3.01         | -2.30          |             |                   |                |        | 0.21          | 15.35          |
| 694       | 7.15         | 9.84          | 10.68          | 1.70          | 1.16           | -1.45        |             | 11.29          |              | 0.59           |             | 0.07              | -0.76          |        | 1.51          | 15.37          |
| 508       | -1.22        | 1.05<br>-2.72 | -6.62          | 0.54          | 1.16           | 2.71<br>6.03 |             | -2.91<br>-6.29 | 0.60         | -2.30          |             | 0.07              | -0.60<br>0.22  |        | 0.78<br>-1.74 | 15.37          |
| 141       | -0.35        |               | -8.15<br>5.75  | 1.60          | -2.82<br>3.81  | -3.74        |             |                |              | 0.59<br>-2.30  |             | -1.22             |                |        |               | 15.64          |
| 629<br>17 | 0.26<br>8.96 | 1.05<br>1.05  | -0.10          | 0.54<br>-0.09 | 1.16           | 0.63         |             | -1.16<br>15.47 | 0.41<br>1.73 | -2.30          |             | 1.37<br>0.07      | -0.50<br>-1.97 |        | 1.62<br>1.19  | 15.70<br>15.70 |
| 447       | 0.93         | -1.46         | -9.97          | 2.81          | -1.49          | 6.24         |             | -3.12          | 1.73         | -2.30          |             |                   | -0.23          |        | -0.90         | 15.70          |
| 134       | 10.64        | -5.23         | -1.90          | -10.50        | -0.17          | 6.86         |             | 15.23          | 2.18         | 3.48           |             |                   |                |        | 0.90          | 15.87          |
| 654       | 6.60         | 9.84          | 5.71           | 3.41          | -1.49          | -1.04        | 5.56        | 7.62           |              | 0.59           |             |                   | -0.02          |        | 0.07          | 16.05          |
| 455       | 3.65         | 3.56          | 2.92           | -0.15         | 1.16           | 1.67         |             | -1.78          |              | -2.30          |             |                   | -0.02          |        | -0.13         | 16.09          |
| 645       | 4.41         | 2.30          | 3.40           | 2.81          | 1.16           | -0.41        |             | -1.51          | 2.36         | -2.30          |             |                   |                |        | 0.55          | 16.20          |
| 7         | 10.55        | -0.21         | -8.05          | 1.60          | -4.14          | 6.66         |             | 7.63           | -1.24        | -2.30          |             |                   | -1.94          |        |               | 16.27          |
| 243       | 1.81         | -3.98         | 4.39           | 1.60          | -0.17          | -0.41        |             | -4.37          | 3.26         | 0.59           |             | 0.07              | 0.29           |        | -0.68         | 16.34          |
| 149       | 1.17         | -0.21         | 4.00           | -0.10         | 2.49           | 0.21         |             | -2.24          | 5.56         | 0.59           |             |                   | -0.11          |        | -0.97         | 16.34          |
| 464       | 4.65         | 8.58          | 4.49           | 1.70          | 1.16           | -0.21        |             | 10.06          |              | 0.59           |             |                   | -0.47          |        | -0.33         | 16.42          |
| 96        | 3.67         | -0.21         | 12.33          | 4.62          | -2.82          | -1.66        | 2.70        | 11.62          | -6.09        | 0.59           | -4.66       | 0.07              | -0.65          | -3.79  | 0.72          | 16.44          |
| 561       | 1.86         | 6.07          | 2.74           | 2.35          | 1.16           | -2.08        | 3.80        | 10.96          | -6.10        | 0.59           | -0.96       |                   | -0.58          |        | -0.05         | 16.72          |
| 636       | 7.62         | 9.84          | 6.27           | 1.65          | -1.49          | 2.29         | 1.27        | 11.57          | -2.87        | 0.59           | -19.45      | 0.07              | -0.84          | 0.28   | 0.01          | 16.81          |
| 515       | 0.62         | 3.56          | 3.48           | -0.09         | 3.81           | -2.08        | -8.32       | 1.91           | 4.09         | -2.30          | 5.51        | 1.37              | -0.11          | 4.93   | 0.53          | 16.91          |
| 606       | 2.45         | 1.05          | 6.87           | 2.81          | 1.16           | -2.70        | 3.14        | -2.85          | -0.28        | -2.30          | 3.66        | 2.66              | -0.12          | -0.43  | 1.83          | 16.95          |
| 15        | 12.07        | 2.30          | 4.10           | -0.10         | 1.16           | 0.83         | -7.10       | 11.69          | 0.96         | -2.30          | -5.58       | 0.07              | -2.28          | -1.04  | 2.20          | 16.98          |
| 123       | 8.50         | -1.46         | -10.29         | -0.15         | -4.14          | 9.15         | 0.16        | 6.78           | 0.65         | 0.59           | 8.29        | -1.22             | -2.16          | 1.91   | 0.66          | 17.27          |
| 451       | -0.58        | -0.21         | -10.92         | 0.54          | 1.16           | 5.20         |             | -1.26          | 2.21         | -2.30          |             | 0.07              |                |        | -0.90         | 17.39          |
| 234       | 3.82         | 1.05          | 6.52           | 1.70          |                | 1.04         |             |                |              | 3.48           |             |                   |                |        |               | 17.42          |
| 505       | 2.20         | 2.30          | -4.47          | 1.60          | -1.49          | 3.95         |             | -5.94          |              | -2.30          |             |                   | -0.09          |        |               | 17.46          |
| 597       | 5.66         | 8.58          | 9.75           | 1.65          | -1.49          | 0.00         |             |                | -5.52        | 0.59           |             |                   |                |        |               | 17.55          |
| 126       | 6.11         | -5.23         | -14.04         | -0.09         |                | 7.90         |             |                |              | 0.59           |             | -1.22             |                |        |               | 17.69          |
| 403       | 3.75         | -1.46         | 11.42          | 4.62          | -2.82          | -1.24        |             | 9.69           |              | 3.48           |             |                   |                |        |               | 17.75          |
| 626       | 3.69         | 2.30          | 7.90           | 1.60          | 1.16           | -2.49        |             | -4.20          |              | -2.30          |             |                   |                |        | 1.62          | 17.79          |
| 649       | 2.90         | 3.56          | 2.45           | 0.54          |                | -1.45        |             |                |              | -2.30          |             |                   |                |        |               | 17.85          |
| 100       | 2.16         | 1.05          | 11.38          |               |                | -2.70        |             |                |              | 0.59           |             |                   |                |        | 0.72          | 17.98          |
| 513       | 3.73         | 4.82          | 7.68           |               | 3.81           | -1.87        |             | -1.89          |              | -2.30          |             |                   |                |        | 1.54          | 18.18          |
| 610       | 0.94         | 2.30          | 5.92           | 0.54          | 3.81           | -3.74        |             | -0.99          |              | -2.30          |             |                   |                |        |               | 18.58          |
| 617       | 5.71         | 7.33          | 10.02          | 1.70          |                | -1.04        |             | 11.59          |              | 0.59           |             |                   |                |        |               | 18.76          |
| 173       | 1.25         | -2.72         | 5.23           | 4.62          | -2.82          | 0.00         | 7.87        | 8.46           | -4.25        | 3.48           | 0.89        | 0.07              | -0.10          | -1.80  | -1.39         | 18.81          |

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| Moights   | 6            | 4             | 8              | 1             | 2              | 3            | г            | 9             | 3             | 2              | 10            | 1                        | 1              | 3             | 1             |                |
|-----------|--------------|---------------|----------------|---------------|----------------|--------------|--------------|---------------|---------------|----------------|---------------|--------------------------|----------------|---------------|---------------|----------------|
| Weights   | 0            | 4             | 0              | 4             | 2              | 3            | 5            | 9             | 3             | 2              | 10            | 1                        | 1              | 3             | 1             |                |
|           |              |               |                |               |                |              |              |               |               |                |               |                          |                |               |               |                |
|           |              | Angles        | Length Not     | Length        |                |              |              |               |               |                |               |                          |                |               |               |                |
|           |              | Over 30       | Along Existing | Through       |                |              |              | Sensitive     |               | Archaeological | Residential   |                          | Length Not     |               | Total         |                |
|           | Total        | Degrees       | Transmission   | Previously    | Transmission   | Stream       | Wetlands in  | Species       | Cropland in   | Sites within   | Proximity     | <b>Public Facilities</b> | Along Parcel   | Floodplain    | Length        |                |
| Route     | Length       | (count)       | Line           | Mined Area    | Line Crossings | Crossings    | ROW          | Score         | ROW           | ROW            | Score         | within 500 feet          | Boundary       | in ROW        | Karst         | Total          |
| 558       | 5.28         | 7.33          | 4.89           | 3.41          | -1.49          | -0.83        | 8.31         | 7.94          | -5.58         | 0.59           | -8.35         | 0.07                     | -0.07          | -2.52         | -0.05         | 18.94          |
| 458       | 1.26         | 2.30          | -0.83          | -0.09         | 3.81           | 0.42         | -7.21        | 3.56          | 5.70          | -2.30          | 5.51          | 1.37                     | -0.16          | 6.83          | -1.14         | 19.03          |
| 549       | 3.09         | -0.21         | 2.57           | 2.81          | 1.16           | -0.21        | 4.24         | -1.19         | 1.33          | -2.30          | 3.66          | 2.66                     | -0.17          | 1.47          | 0.16          | 19.08          |
| 133       | 8.96         | -3.98         | 3.44           | -10.50        | -0.17          | 3.12         | -7.43        | 13.69         | 3.20          | 3.48           | -0.96         | 0.07                     | -2.08          | 7.35          | 0.94          | 19.13          |
| 407       | 2.24         | -0.21         | 10.48          | 2.35          | -0.17          | -2.28        | 3.36         | 11.55         | -4.39         | 3.48           | -2.81         | -1.22                    | -0.80          | -2.74         | 0.45          | 19.29          |
| 77        | 4.35         | 1.05          | 12.50          | 4.62          | -2.82          | -1.66        | 3.03         | 11.80         | -6.00         | 0.59           | -4.66         | 0.07                     | -0.68          | -3.79         | 0.93          | 19.34          |
| 448       | 2.85         | 1.05          | -8.77          | 1.60          | -1.49          | 6.45         |              | -4.28         | 2.73          | -2.30          | 14.76         | 0.07                     | -0.13          | 2.63          | -0.90         | 19.49          |
| 540       | 6.30         | 7.33          | 5.45           | 1.65          | -1.49          | 2.50         |              | 11.89         | -3.90         | 0.59           | -13.90        | 0.07                     | -0.88          | 0.45          | -0.39         | 19.68          |
| 441       | 13.83        | -1.46         | -2.52          | -10.50        | 1.16           | 7.28         | -3.80        | 17.23         | 1.56          | 0.59           | -12.98        | 0.07                     | -1.89          | 10.35         | 0.91          | 19.84          |
| 646       | 6.32         | 4.82          | 4.60           | 1.60          | 1.16           | -0.21        |              | -2.68         | 3.67          | -2.30          | -2.81         | 1.37                     | -0.02          | 1.72          | 0.55          | 19.94          |
| 456       | 4.37         | 3.56          | 3.38           |               | 3.81           | 0.63         | -2.26        | -0.24         | 4.93          | -2.30          | 0.89          | 1.37                     | -0.47          | 2.76          | -0.13         | 20.19          |
| 97        | 5.59         | 2.30          | 13.53          | 3.41          | -2.82          | -1.45        |              | 10.45         | -4.79         | 0.59           | -5.58         | -1.22                    | -0.55          | -3.35         | 0.72          | 20.19          |
| 177       | -0.26        | -1.46         | 4.28           | 2.35          | -0.17          | -1.04        | 4.02         | 10.32         | -3.46         | 3.48           | 7.36          | -1.22                    | -0.51          | -1.95         | -1.39         | 20.35          |
| 553       | 1.58         | 1.05          | 1.62           | 0.54          | 3.81           | -1.24        | 0.38         | 0.67          | 2.11          | -2.30          | 10.13         | 1.37                     | -0.58          | 1.30          | 0.16          | 20.60          |
| 384       | 4.42         | -0.21         | 11.60          | 4.62          | -2.82          | -1.24        | 7.54         | 9.87          | -5.08         | 3.48           | -9.28         | 0.07                     | -0.42          | -2.58         | 0.67          | 20.64          |
| 607       | 4.36         | 3.56          | 8.07           | 1.60          | 1.16           | -2.49        |              | -4.01         | 1.02          | -2.30          | 2.74          | 1.37                     | -0.02          | 0.00          | 1.83          | 20.68          |
| 637       | 8.34         | 9.84          | 6.72           | 1.70          | 1.16           | 1.25         | 1.82         | 13.09         | -2.63         | 0.59           | -19.45        | 0.07                     | -0.84          | -0.77         | 0.01          | 20.90          |
| 81        | 2.84         | 2.30          | 11.55          | 2.35          | -0.17          | -2.70        | -0.72        | 13.66         | -5.22         | 0.59           | 1.81          | -1.22                    | -1.09          | -3.95         | 0.93          | 20.99          |
| 430       | 11.70        | 2.30          | -10.91         | -0.15         | -2.82          | 9.57         |              | 8.79          | 0.03          | -2.30          | 5.51          | 0.07                     | -2.52          | 2.60          | 1.50          | 21.23          |
| 404       | 5.66         | 1.05<br>-0.21 | 12.62          | 3.41          | -2.82          | -1.04        | 7.76         | 8.52          | -3.87         | 3.48           | -10.20        | -1.22                    | -0.29<br>-0.73 | -2.14         | 0.45          | 21.39          |
| 20<br>124 | 4.99<br>9.22 | -0.21         | 8.20<br>-9.84  | 4.62<br>-0.10 | -2.82<br>-1.49 | 0.83<br>8.11 | 4.13<br>0.82 | 13.45<br>8.32 | -4.39<br>0.90 | 0.59<br>0.59   | -4.66<br>8.29 | 0.07<br>-1.22            | -0.73          | -1.89<br>0.86 | -0.74<br>0.66 | 21.46<br>21.48 |
| 598       | 6.38         | 8.58          | 10.20          | 1.70          | 1.16           | -1.04        |              | 11.77         | -5.28         | 0.59           | -13.90        | 0.07                     | -0.84          | -2.50         | 1.29          | 21.48          |
| 433       | 9.31         | -1.46         | -14.66         | -0.09         | -0.17          | 8.32         |              | 14.12         | 1.04          | -2.30          | 10.13         | 0.07                     | -0.84          | 5.62          | 0.49          | 21.66          |
| 388       | 2.91         | 1.05          | 10.65          | 2.35          | -0.17          | -2.28        | 3.69         | 11.74         | -4.30         | 3.48           | -2.81         | -1.22                    | -0.83          | -2.74         | 0.49          | 22.19          |
| 174       | 3.16         | -0.21         | 6.43           | 3.41          | -2.82          | 0.21         |              | 7.30          | -2.95         | 3.48           | -0.03         | -1.22                    | 0.00           | -1.36         | -1.39         | 22.45          |
| 550       | 5.00         | 2.30          | 3.77           | 1.60          |                | 0.00         |              | -2.36         | 2.63          | -2.30          | 2.74          | 1.37                     | -0.07          | 1.91          | 0.16          | 22.71          |
| 480       | 4.44         | 1.05          | 4.61           |               |                | 0.42         |              |               | -4.88         | 0.59           |               | 1.37                     | -0.46          |               | -0.55         |                |
| 24        | 3.48         | 1.05          | 7.25           |               | -0.17          | -0.21        |              | 15.31         | -3.60         | 0.59           |               | -1.22                    | -1.14          | -2.05         | -0.74         | 23.00          |
| 222       | 0.33         | -3.98         | 8.42           |               | -0.17          | -1.66        |              | -3.50         |               | 0.59           |               | 1.37                     | -0.05          | 0.73          | 0.49          | 23.08          |
| 78        | 6.26         | 3.56          | 13.70          | 3.41          | -2.82          | -1.45        |              | 10.63         | -4.70         | 0.59           | -5.58         | -1.22                    | -0.58          | -3.35         | 0.43          | 23.08          |
| 440       | 12.15        | -0.21         | 2.81           | -10.50        | 1.16           | 3.54         |              | 15.69         | 2.57          | 0.59           | -3.73         |                          | -2.44          | 8.04          | 1.78          | 23.08          |
| 213       | 3.54         | 3.56          | 11.29          | 1.65          | -2.82          | 1.04         |              |               |               | 3.48           | -5.58         | -1.22                    | -0.76          | -0.27         | -0.06         | 23.69          |
| 541       | 7.02         | 7.33          | 5.90           | 1.70          |                | 1.46         |              |               | -3.66         | 0.59           |               | 0.07                     | -0.89          | -0.60         | -0.39         | 23.77          |
| 307       | 2.98         | -2.72         | 10.94          | 4.62          | -2.82          | -0.83        |              |               | -6.25         | 3.48           |               |                          | -0.47          | -2.63         | 0.23          | 24.17          |
| 154       | 1.92         | 1.05          | 5.40           |               | -2.82          | 0.00         |              | 8.64          | -4.16         | 3.48           | 0.89          | 0.07                     | -0.13          | -1.80         | -1.17         | 24.21          |
| 710       | 6.94         | 4.82          | 10.80          |               | -1.49          | -0.83        |              | 11.69         | -5.80         | 0.59           | -12.05        | 1.37                     | -0.75          | -1.87         | 1.29          | 24.23          |
| 484       | 2.93         | 2.30          | 3.66           |               | 1.16           | -0.62        |              |               | -4.09         | 0.59           | 4.59          | 0.07                     | -0.87          | -1.26         | -0.55         | 24.31          |
| 385       | 6.34         | 2.30          | 12.80          | 3.41          | -2.82          | -1.04        |              | 8.71          | -3.78         | 3.48           | -10.20        | -1.22                    | -0.32          | -2.14         | 0.67          | 24.39          |
| 226       | -1.18        | -2.72         | 7.47           |               | 2.49           | -2.70        |              | -1.63         | 3.13          | 0.59           | 18.45         | 0.07                     | -0.46          | 0.58          | 0.49          | 24.62          |
| 21        | 6.90         | 2.30          | 9.40           | 3.41          | -2.82          | 1.04         |              | 12.28         | -3.08         | 0.59           | -5.58         | -1.22                    | -0.63          | -1.45         | -0.74         | 25.10          |
| 431       | 12.42        | 2.30          | -10.46         |               |                | 8.53         |              | 10.32         | 0.27          | -2.30          |               | 0.07                     | -2.53          | 1.55          | 1.50          |                |
| 311       | 1.47         | -1.46         | 9.99           |               | -0.17          | -1.87        | 6.33         | 12.03         | -5.47         | 3.48           | 3.66          | -1.22                    | -0.88          | -2.79         | 0.23          | 25.70          |
| 714       | 5.44         | 6.07          | 9.86           |               | 1.16           | -1.87        |              |               |               | 0.59           |               | 0.07                     | -1.16          |               | 1.29          |                |

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| Woights    | 6            | Д            | 8              | 4            | 2              | 3             | Е            | 9              | 3              | 2              | 10             | 1                        | 1              | 3             | 1             |                |
|------------|--------------|--------------|----------------|--------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------------------|----------------|---------------|---------------|----------------|
| Weights    | 0            | 4            | ٥              | 4            | 2              | 3             | 5            | 9              | 3              | 2              | 10             | 1                        | 1              | 3             | 1             |                |
|            |              |              |                |              |                |               |              |                |                |                |                |                          |                |               |               |                |
|            |              | Angles       | Length Not     | Length       |                |               |              |                |                |                |                |                          |                |               |               |                |
|            |              | Over 30      | Along Existing | Through      |                |               |              | Sensitive      |                | Archaeological | Residential    |                          | Length Not     |               | Total         |                |
|            | Total        | Degrees      | Transmission   | Previously   | Transmission   | Stream        | Wetlands in  | Species        | Cropland in    | Sites within   | Proximity      | <b>Public Facilities</b> | Along Parcel   | Floodplain    | Length        |                |
| Route      | Length       | (count)      | Line           | Mined Area   | Line Crossings | Crossings     | ROW          | Score          | ROW            | ROW            | Score          | within 500 feet          | Boundary       | in ROW        | Karst         | Total          |
| 158        | 0.41         | 2.30         | 4.46           | 2.35         | -0.17          | -1.04         | 4.35         | 10.51          | -3.37          | 3.48           | 7.36           | -1.22                    | -0.54          | -1.95         | -1.17         | 25.75          |
| 203        | 1.00         | -2.72        | 8.59           | 2.81         | -0.17          | -1.66         | 3.69         | -3.31          | 2.43           | 0.59           | 11.98          | 1.37                     | -0.08          | 0.73          | 0.71          | 25.97          |
| 327        | 5.61         | -0.21        | 7.64           | 4.62         | -2.82          | 1.46          | 8.86         | 11.68          | -3.51          | 3.48           | -8.35          | 0.07                     | -0.50          | -0.90         | -0.83         | 26.30          |
| 481        | 6.36         | 3.56         | 5.81           | 3.41         | -1.49          | 0.63          | 6.11         | 9.31           | -3.58          | 0.59           | -2.81          | 0.07                     | -0.36          | -0.65         | -0.55         | 26.42          |
| 194        | 4.21         | 4.82         | 11.47          | 1.65         | -2.82          | 1.04          | 3.47         | 9.77           | -2.80          | 3.48           | -5.58          | -1.22                    | -0.79          | -0.27         | 0.16          | 26.59          |
| 223        | 2.24         | -1.46        | 9.62           | 1.60         | -0.17          | -1.45         |              | -4.65          | 3.64           | 0.59           | 11.06          | 0.07                     | 0.05           | 1.17          | 0.49          | 26.83          |
| 529        | 3.53         | -0.21        | 7.80           | 2.81         | 1.16           | -1.24         | 1.04         | -1.48          | 1.72           | -2.30          | 9.21           | 2.66                     | -0.41          | 1.42          | 1.33          | 27.04          |
| 288        | 3.65         | -1.46        | 11.11          | 4.62         | -2.82          | -0.83         | 10.51        | 10.35          | -6.16          | 3.48           | -2.81          | 0.07                     | -0.50          | -2.63         | 0.45          | 27.05          |
| 691        | 7.62         | 6.07         | 10.98          | 4.62         | -1.49          | -0.83         | 5.23         | 11.88          | -5.71          | 0.59           | -12.05         | 1.37                     | -0.78          | -1.87         | 1.51          | 27.13          |
| 207        | -0.51        | -1.46        | 7.65           | 0.54         | 2.49           | -2.70         | -0.06        | -1.45          | 3.22           | 0.59           | 18.45          | 0.07                     | -0.49          | 0.58          | 0.71          | 27.62          |
| 520        | 6.74         | 7.33         | 10.67          | 1.65         | -1.49          | 1.46          |              | 11.60          | -3.52          | 0.59           | -8.35          | 0.07                     | -1.12          | 0.42          | 0.78          | 27.65          |
| 214        | 4.26         | 3.56         | 11.74          | 1.70         | -0.17          | 0.00          | 3.69         | 11.12          | -2.65          | 3.48           | -5.58          | -1.22                    | -0.77          | -1.32         | -0.06         | 27.80          |
| 308        | 4.89         | -0.21        | 12.14          | 3.41         | -2.82          | -0.62         |              | 9.01           | -4.95          | 3.48           | -3.73          | -1.22                    | -0.37          | -2.19         | 0.23          | 27.80          |
| 331        | 4.10         | 1.05         | 6.69           | 2.35         | -0.17          | 0.42          |              | 13.54          | -2.72          | 3.48           | -1.88          | -1.22                    | -0.91          | -1.07         | -0.83         | 27.83          |
| 155        | 3.83         | 3.56         | 6.60           | 3.41         | -2.82          | 0.21          |              | 7.48           | -2.85          | 3.48           | -0.03          | -1.22                    | -0.03          | -1.36         | -1.17         | 27.85          |
| 711        | 8.86         | 7.33         | 12.00          | 3.41         | -1.49          | -0.62         | 5.45         | 10.53          | -4.50          | 0.59           | -12.98         | 0.07                     | -0.65          | -1.45         | 1.29          | 27.85          |
| 146        | 1.64         | -3.98        | 4.29           | 2.81         | -0.17          | 0.83          | 4.79         | -1.65          | 4.05           | 0.59           | 11.98          | 1.37                     | -0.13          | 2.63          | -0.97         | 28.10          |
| 461        | 5.12         | 4.82         | 4.78           | 4.62         | -1.49          | 0.42          | 5.89         | 10.66          | -4.79          | 0.59           | -1.88          | 1.37                     | -0.49          | -1.09         | -0.33         | 28.19          |
| 533        | 2.02         | 1.05         | 6.85           | 0.54         | 3.81           | -2.28         | -2.81        | 0.38           | 2.50           | -2.30          | 15.68          | 1.37                     | -0.82          | 1.27          | 1.33          | 28.58          |
| 292        | 2.14         | -0.21        | 10.16          | 2.35         | -0.17          | -1.87         |              | 12.21          | -5.37          | 3.48           | 3.66           | -1.22                    | -0.91          | -2.79         | 0.45          | 28.59          |
| 695<br>137 | 6.11<br>4.86 | 7.33<br>3.56 | 10.03<br>7.16  | 2.35<br>1.65 | 1.16<br>-2.82  | -1.87<br>3.54 | 1.38<br>4.57 | 13.74<br>11.42 | -4.93<br>-1.18 | 0.59<br>3.48   | -5.58<br>-5.58 | 0.07<br>-1.22            | -1.19<br>-0.84 | -2.05<br>1.63 | 1.51<br>-1.51 | 28.64<br>28.71 |
|            | 12.54        | -1.46        | 4.39           | 2.81         | -1.49          | 1.46          |              | 12.28          | -0.55          | -2.30          | 2.74           | 1.37                     | -2.30          | -0.48         | 2.20          | 28.73          |
| 12<br>231  | 4.29         | -1.40        | 6.81           | 4.62         | -2.82          | 1.40          | 11.62        | 12.20          | -4.54          | 3.48           | -2.81          | 0.07                     | -2.50          | -0.48         | -1.23         | 29.17          |
| 231        | 15.76        | 6.07         | 7.27           | 1.65         | -4.14          | 4.16          | -2.70        | 25.35          | -5.78          | 0.59           | -14.83         | -1.22                    | -3.01          | -1.48         | 1.65          | 29.34          |
| 150        | 0.13         | -2.72        | 3.34           | 0.54         | 2.49           | -0.21         |              | 0.21           | 4.84           | 0.59           | 18.45          | 0.07                     | -0.54          | 2.48          | -0.97         | 29.64          |
| 465        | 3.61         | 6.07         | 3.84           | 2.35         | 1.16           | -0.62         |              | 12.51          | -4.00          | 0.59           | 4.59           | 0.07                     | -0.90          | -1.26         | -0.34         | 29.71          |
| 204        | 2.92         | -0.21        | 9.79           | 1.60         | -0.17          |               |              |                |                | 0.59           | 11.06          | 0.07                     | 0.02           | 1.17          | 0.71          | 29.72          |
| 510        | 4.20         | 1.05         | 7.97           | 2.81         | 1.16           |               |              |                |                | -2.30          | 9.21           | 2.66                     |                |               | 1.54          | 29.93          |
| 328        | 7.52         | 2.30         | 8.84           | 3.41         | -2.82          | 1.67          |              |                | -2.20          | 3.48           | -9.28          | -1.22                    | -0.40          | -0.46         | -0.83         | 29.95          |
| 16         | 11.03        | -0.21        | 3.45           | 0.54         | 1.16           |               |              | 14.14          | 0.23           | -2.30          | 9.21           | 0.07                     | -2.71          | -0.63         | 2.20          | 30.27          |
| 501        | 7.41         | 8.58         | 10.85          | 1.65         | -1.49          | 1.46          |              | 11.79          | -3.43          | 0.59           | -8.35          | 0.07                     | -1.15          | 0.42          | 1.00          | 30.55          |
| 614        | 6.18         | 3.56         | 10.32          | 4.62         | -1.49          | -0.41         |              | 12.18          | -6.87          | 0.59           | -5.58          | 1.37                     | -0.83          | -1.94         | 1.07          | 30.63          |
| 530        | 5.44         | 2.30         | 9.00           | 1.60         | 1.16           |               |              | -2.65          | 3.02           | -2.30          | 8.29           | 1.37                     | -0.31          | 1.86          | 1.33          | 30.67          |
| 195        | 4.93         | 4.82         | 11.92          | 1.70         | -0.17          |               |              |                | -2.56          | 3.48           | -5.58          |                          | -0.80          | -1.32         | 0.16          | 30.69          |
| 289        | 5.57         | 1.05         | 12.31          | 3.41         | -2.82          | -0.62         |              |                |                | 3.48           | -3.73          | -1.22                    | -0.40          | -2.19         | 0.45          | 30.69          |
| 235        | 2.78         | -1.46        | 5.87           | 2.35         | -0.17          |               |              |                | -3.76          | 3.48           | 3.66           | -1.22                    | -0.96          | -0.88         | -1.23         | 30.72          |
| 692        | 9.53         | 8.58         | 12.18          | 3.41         | -1.49          | -0.62         |              |                | -4.41          | 0.59           | -12.98         | 0.07                     | -0.68          | -1.45         | 1.51          | 30.75          |
| 514        | 2.69         | 2.30         | 7.02           | 0.54         | 3.81           | -2.28         |              |                | 2.59           | -2.30          | 15.68          | 1.37                     | -0.85          | 1.27          | 1.54          | 31.47          |
| 147        | 3.56         | -1.46        | 5.49           | 1.60         | -0.17          |               |              |                | 5.35           | 0.59           | 11.06          | 0.07                     | -0.03          | 3.07          | -0.97         | 31.75          |
| 521        | 7.46         | 7.33         | 11.12          | 1.70         | 1.16           | 0.42          |              |                | -3.27          | 0.59           | -8.35          | 0.07                     | -1.13          | -0.63         | 0.78          | 31.76          |
| 462        | 7.03         | 7.33         | 5.99           | 3.41         | -1.49          | 0.63          |              | 9.49           |                | 0.59           | -2.81          | 0.07                     | -0.39          | -0.65         | -0.33         | 31.82          |
| 453        | 4.84         | -0.21        | 3.67           | 2.81         | 1.16           |               |              |                | 3.42           | -2.30          | 9.21           | 2.66                     | -0.49          | 3.33          | -0.13         | 32.06          |
| 618        | 4.67         | 4.82         | 9.37           | 2.35         | 1.16           |               |              |                | -6.09          | 0.59           | 0.89           | 0.07                     | -1.24          | -2.09         | 1.07          | 32.17          |

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| Route   Length Not   Core 3  | Weights     | 6 | 4      | 8              | 4      | 2 | 3        | 5 | 9 | 3 | 2 | 10          | 1 | 1          | 3 | 1             |                |
|--|-------------|---|--------|----------------|--------|---|----------|---|---|---|---|-------------|---|------------|---|---------------|----------------|
| Part    | Weights     |   |        |                | -      |   |          |   |   | J |   | 10          |   |            |   |               |                |
| Part    |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   |               |                |
| Pose   |             |   | Angles |                | Length |   |          |   |   |   |   |             |   |            |   |               |                |
|  |             |   |        | Along Existing | _      |   |          |   |   |   | _ | Residential |   | Length Not |   | Total         |                |
| 13   |             |   |        |                | _      |   |          |   | - |   |   | •           |   | _          | - | Length        |                |
| Heat   So  | <del></del> |   |        |                |        | _ |          |   |   |   |   |             |   | •          |   | Karst         | Total          |
| 684   8.81   6.07   7.02   4.62   1.4.9   1.87   6.55   1.36   -4.14   0.59   -1.113   1.17   -0.86   -0.21     323   5.21   -0.21   8.01   3.41   -2.82   1.87   12.17   10.84   -3.22   3.48   3.73   -1.22   -0.48   -0.22     318   5.57   3.36   7.02   1.70   -0.17   2.50   5.12   12.96   -0.94   3.48   -5.55   -1.12   -0.85   0.58     319   5.95   -3.33   -9.95   2.81   -4.14   8.73   5.85   8.91   -0.61   0.09   16.61   0.007   -7.19   1.42     4   16.48   6.07   7.72   1.70   1.4.9   3.12   2.215   2.695   -5.54   0.59   1.81   1.02   3.02   2.23     325   12.21   3.36   -0.15   1.4.9   3.12   2.215   2.695   -5.54   0.59   1.81   0.007   -2.42   3.04     355   6.85   4.82   10.46   4.62   1.4.9   4.16   -2.04   10.28   2.55   0.59   1.81   0.07   -2.42   3.04     351   6.85   4.82   10.46   4.62   1.4.9   4.16   1.10  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 2.20          | 32.37          |
| 132   6.21   -0.21   8.01   3.41   -2.82   1.87   12.17   10.84   -3.24   3.48   -3.73   -1.22   -0.48   -0.28   13.8   5.77   3.56   7.62   1.70   -0.17   2.50   5.12   12.96   -0.94   3.48   5.58   -1.22   0.88   0.58   12.21   9.69   5.22   -9.54   2.81   -4.14   8.73   5.45   8.91   -0.61   0.05   16.61   0.07   -2.19   1.42   4.14   8.73   5.45   8.91   -0.61   0.59   16.61   0.07   -2.19   1.42   1.22   3.02   2.53   1.22   3.02   1.24   1.24   -0.21   3.36   -0.15   -1.49   3.12   -2.15   2.68   0.59   -1.48   -0.15   -1.49   -0.15   1.49   4.16   -2.04   10.26   2.65   0.59   1.81   0.07   -2.42   3.04   3.95   6.85   4.82   10.49   4.62   -1.49   -0.41   8.70   12.36   6.78   0.59   -5.88   1.37   -0.86   1.94   -1.24   -0.21   - |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.67         | 32.57          |
| 138   5.57   3.56   7.62   1.70   0.17   2.50   5.12   12.96   0.94   3.48   5.58   1.22   0.85   0.58   1.21   0.90   5.22   3.94   2.81   4.14   8.73   5.45   8.91   0.61   0.95   1.661   0.07   2.19   1.42   4   16.48   6.07   7.72   1.70   1.49   3.12   2.15   26.89   5.54   0.59   1.483   1.22   3.02   2.53   3.12   2.13   2.24   2.65   0.59   1.483   1.22   3.02   2.53   3.25  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.01          | 32.78          |
| 121   9,69   5,23   -9,54   2,81   -4,14   8,73   5,45   8,91   -0,61   0,59   16,61   0,07   -2,19   1,42   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -1.23         | 32.81          |
| 16.48  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -1.51         | 32.82          |
| 129   1241   0.21   3.36   0.15   1.49   4.16   2.04   10.26   2.05   0.99   1.81   0.07   2.42   3.94   595   5.85   4.22   10.49   4.62   1.449   0.44   8.20   1.236   6.78   0.59   5.58   1.37   0.36   1.94   511   511   511   3.56   9.17   1.60   1.16   1.04   1.93   2.47   3.11   2.20   8.29   1.37   0.34   1.86   457   3.33   1.05   2.77   0.54   3.81   0.21   -1.38   2.27   4.21   -2.30   15.68   1.37   0.30   3.17   1.61   8.80   6.67   11.52   3.41   -1.49   0.21   8.42   11.01   -5.57   0.59   4.53   0.07   0.73   -1.50   6.88   7.30   7.33   6.07   2.35   1.16   0.83   2.70   15.55   3.35   0.59   4.66   0.07   -1.77   -0.37   1.50   1.25  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.66          | 33.24          |
| 505   6.85   4.92   10.49   4.62   1.4.49   -0.41   8.20   12.36   -6.78   0.59   5.58   1.37   -0.86   -1.94  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.65          | 33.45          |
| S11   6.11   3.56   9.17   1.60   1.16   1.04   1.93   2.47   3.11   2.30   8.29   1.37   0.34   1.86   457   3.33   1.05   2.72   0.54   3.81   0.21   1.38   2.22   4.21   2.30   15.68   1.37   0.90   3.17   615   8.09   6.07   11.52   3.41   1.49   0.21   8.42   11.01   5.57   0.59   6.51   0.07   0.73   1.50   638   7.30   7.33   6.07   2.35   1.16   0.83   2.70   15.55   3.35   0.59   4.66   0.07   1.17   0.31   0.55   0.59   3.18   0.59   8.35   0.59   4.66   0.07   1.16   0.63   1.25   0.59   0.58   0.59   4.66   0.07   1.16   0.63   1.25   0.59    |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.43          | 33.48          |
| 457   333   1.05   2.72   0.54   3.81   0.21   -1.38   2.22   4.21   -2.30   15.68   1.37   -0.90   3.17   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.29          | 33.52          |
| 615 8.09 6.07 11.52 3.41 1.49 -0.21 8.42 11.01 -5.57 0.59 -6.51 0.07 -0.73 1.150 638 7.30 7.33 6.07 2.35 1.16 0.83 2.70 1.555 -3.35 0.59 4.66 0.07 1.27 0.37 502 8.13 8.58 11.30 1.70 1.16 0.42 1.71 13.32 -3.18 0.59 8.35 0.07 1.16 0.63 1.25 8.18 3.98 10.49 0.54 1.49 7.69 1.60 10.77 0.18 0.59 23.08 1.22 2.60 1.27 2.09 5.34 6.07 9.55 2.35 1.16 1.45 4.35 1.42 2.600 0.59 0.39 0.07 1.27 2.09 5.38 7.49 3.56 6.19 4.62 1.49 2.08 9.19 14.01 5.17 0.59 5.58 1.37 0.91 0.00 2.44 6.75 2.30 4.87 1.60 1.16 1.46 3.03 0.81 4.73 2.30 8.29 1.37 0.93 3.77 1.32 10.02 1.46 0.39 0.09 1.16 2.91 6.44 1.59 3.66 0.59 6.44 0.07 2.11 6.04 6.35 10.72 8.58 8.22 3.41 1.49 2.08 7.10 1.25 2.283 0.59 1.20 0.07 1.27 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.54          | 33.56          |
| 638  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.13         | 33.60          |
| 502   8.13   8.58   1130   1.70   1.16   0.42   1.71   13.32   3.18   0.59   8.35   0.07   1.16   0.63   1.15   8.18   3.398   -1.049   0.54   -1.49   7.69   1.60   10.77   0.18   0.55   23.08   -1.22   -2.60   1.27   1.20   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.07          | 34.26          |
| 1.25   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.01          | 34.32          |
| 599         5.34         6.07         9.55         2.35         1.16         -1.45         4.35         14.22         -6.00         0.59         0.89         0.07         -1.27         -2.09           538         7.49         3.56         6.19         4.62         -1.49         2.08         9.19         14.01         5.17         0.59         5.58         1.37         -0.91         -0.02           454         6.75         2.30         4.87         1.60         11.16         1.46         3.33         -0.81         4.73         -2.30         8.29         1.37         0.93         3.77           132         10.02         -1.46         0.39         -0.09         1.16         2.91         -6.44         15.59         3.66         0.59         6.44         0.07         -2.11         6.04           635         10.72         8.58         8.22         3.41         -1.49         2.08         7.10         12.52         -2.83         0.59         6.44         0.07         -2.11         6.04           448         8.77         7.33         7.00         1.70         1.16         2.91         2.81         14.96         -1.57         0.99         15.68   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.00          | 34.65          |
| 538         7.49         3.56         6.19         4.62         -1.49         2.08         9.19         14.01         -5.17         0.59         -5.58         1.37         0.91         -0.02           454         6.75         2.30         4.87         1.60         1.16         1.46         3.03         -0.81         4.73         -2.30         8.29         1.37         -0.39         3.77           132         10.02         -1.46         -0.39         -0.09         1.16         2.91         -6.44         15.59         3.66         0.59         6.44         0.00         0.07         -2.21         6.04         6.83         10.72         8.58         8.22         3.41         -1.49         2.08         7.10         12.52         -2.83         0.59         +12.05         0.07         -0.76         0.23           445         8.77         7.33         7.00         1.70         1.16         2.91         2.61         14.59         1.57         0.69         0.59         4.56         -1.22         2.09         1.86           428         12.89         -1.46         -10.16         2.81         -2.82         9.15         3.03         10.92         +1.24         -2.30 </td <td></td> <td>0.66</td> <td>34.78</td>   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.66          | 34.78          |
| 454   6.75   2.30   4.87   1.60   1.16   1.46   3.03   -0.81   4.73   -2.30   8.29   1.37   -0.39   3.77     132   10.02   -1.46   -0.39   -0.09   1.16   2.91   -6.44   15.59   3.66   0.59   6.44   0.07   -2.11   6.04     445   8.77   7.33   7.00   1.70   1.16   2.91   2.81   14.96   -1.57   0.59   -8.35   0.07   -0.76   0.23     445   8.77   7.33   7.00   1.70   1.16   2.91   2.81   14.96   -1.57   0.59   -8.35   0.07   -1.21   1.27     122   11.61   -2.72   -8.34   1.60   -4.14   8.94   6.00   7.75   0.69   0.59   15.68   -1.22   -2.09   1.86     428   12.89   -1.46   -10.16   2.81   -2.82   9.15   3.03   10.92   -1.24   -2.30   13.83   1.37   -2.54   2.12     596   8.76   7.33   11.69   3.41   -1.49   -0.21   8.75   11.20   -5.48   0.59   -6.51   0.07   -0.76   -1.50     542   5.88   4.82   5.25   2.35   1.16   1.04   5.45   15.87   -4.39   0.59   0.89   0.07   -1.32   -0.19     436   15.61   3.56   2.74   -0.15   -0.17   4.58   -4.35   12.27   2.03   -2.30   -0.96   1.37   -2.78   3.73     130   13.13   -0.21   3.81   -0.10   1.16   3.12   -1.49   11.79   2.90   0.59   1.81   0.07   -2.42   1.99     432   11.38   -0.21   -11.11   0.54   -0.17   8.11   -0.72   12.76   -0.45   -2.30   20.30   0.07   -2.96   1.96     539   9.40   6.07   7.39   3.41   -1.49   2.29   9.85   12.84   -3.87   0.59   -6.51   0.07   -0.81   0.40     211   4.73   -0.21   12.04   4.62   -2.82   0.63   8.31   11.72   -4.16   3.48   2.74   0.07   -0.76   -0.76     439   13.22   2.30   -1.01   -0.09   2.49   3.33   8.87   17.59   3.04   -2.30   3.66   1.37   -2.47   6.75     429   14.80   1.05   -8.96   1.60   -2.82   0.63   8.75   11.90   -4.07   3.48   2.74   0.07   -0.76     437   16.33   3.56   3.19   -0.10   2.49   3.54   -3.80   13.80   2.27   -2.30   -0.96   1.37   -2.47   6.75     429   14.80   1.05   -8.96   1.60   -2.82   0.63   8.75   11.90   -4.07   3.48   2.74   0.07   -0.79   -0.76     437   16.33   3.56   3.19   -0.10   2.49   3.54   -3.80   13.80   2.27   -2.30   -0.96   1.37   -2.47   6.75     429   14.80   1.05   -8.96 |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.29<br>-0.39 | 35.06<br>35.55 |
| 132   10.02   -1.46   -0.39   -0.09   1.16   2.91   -6.44   15.59   3.66   0.59   6.44   0.07   -2.11   6.04     635   10.72   8.58   8.22   3.41   -1.49   2.08   7.10   12.52   -2.83   0.59   -12.05   0.07   -0.76   0.23     445   8.77   7.33   7.00   1.70   1.16   2.91   2.81   14.96   -1.57   0.59   8.35   0.07   -1.21   1.27     122   11.61   -2.72   -8.34   1.60   -4.14   8.94   6.00   7.75   0.69   0.59   15.68   -1.22   -2.09   1.86     428   12.89   -1.46   -10.16   2.81   -2.82   9.15   3.03   10.92   -1.24   -2.30   13.83   1.37   -2.54   2.12     596   8.76   7.33   11.69   3.41   -1.49   -0.21   8.75   11.20   -5.48   0.59   -6.51   0.07   -0.76   -1.50     542   5.98   4.82   5.25   2.35   1.16   1.04   5.45   15.87   -4.39   0.59   0.89   0.07   -1.32   -0.19     436   15.61   3.56   2.74   -0.15   -0.17   4.58   -4.35   12.27   2.03   -2.30   -0.96   1.37   -2.78   3.73     130   13.13   -0.21   3.81   -0.10   1.16   3.11   -1.49   11.79   2.90   0.59   1.81   0.07   -2.46   1.96     539   9.40   6.07   7.39   3.41   -1.49   2.29   9.85   12.84   -3.87   0.59   -6.51   0.07   -0.91   0.40     439   13.22   2.30   -1.01   -0.09   2.49   3.33   -8.87   17.59   3.04   -2.30   3.66   1.37   -2.47   6.75     429   14.80   1.05   -8.96   1.60   -2.82   9.36   3.69   9.75   0.07   -2.30   1.291   0.07   -2.45   2.56     437   16.33   3.56   3.19   -0.10   2.49   3.54   -3.80   13.80   2.27   -2.30   -0.96   1.37   -2.78   2.68     437   16.33   3.56   3.19   -0.10   2.49   3.54   -3.80   13.80   2.27   -2.30   -0.96   1.37   -2.78   2.68     439   13.22   2.30   -1.01   -0.09   2.49   3.33   -8.87   17.59   3.04   -2.30   3.66   1.37   -2.47   6.75     429   14.80   1.05   -8.96   1.60   -2.82   9.36   3.69   9.75   0.07   -2.30   1.291   0.07   -2.45   2.26     1215   3.22   1.05   11.09   2.35   -0.17   -0.41   4.57   13.58   -3.37   3.48   9.21   -1.22   -1.20   -0.93     437   16.33   3.56   3.19   -0.10   2.49   3.54   -3.80   13.80   2.27   -2.30   -0.96   1.37   -2.78   2.68     192   5.40   1. |             |   |        |                |        |   | <b>.</b> |   |   |   |   |             |   |            |   |               |                |
| 635   10.72   8.58   8.22   3.41   -1.49   2.08   7.10   12.52   -2.83   0.59   -12.05   0.07   -0.76   0.23   445   8.77   7.33   7.00   1.70   1.16   2.91   2.81   14.96   -1.57   0.59   -8.35   0.07   -1.21   1.27   1.22   11.61   -2.22   8.34   1.60   -4.14   8.94   6.00   7.75   0.69   0.59   15.68   -1.22   -2.09   1.86   4.88   12.89   -1.46   -10.16   2.81   -2.82   9.15   3.03   10.92   -1.24   -2.30   13.83   1.37   -2.54   2.12   1.56   5.66   8.76   7.33   11.69   3.41   -1.49   -0.21   8.75   11.20   -5.48   0.59   -6.51   0.07   -0.76   -1.50   1.50   1.54   1.55   1.58   -4.35   1.58   -4.35   1.58   -4.35   1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   1.86   -1.22   -2.09   -1.24   -2.30   13.83   1.37   -2.54   -2.12 |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.13         | 35.69<br>36.41 |
| 445         8.77         7.33         7.00         1.70         1.16         2.91         2.81         14.96         -1.57         0.59         -8.35         0.07         -1.21         1.27           122         11.61         -2.72         -8.34         1.60         -4.14         8.94         6.00         7.75         0.69         0.59         15.68         -1.22         2.09         1.86           428         12.89         -1.46         -10.16         2.81         -2.82         9.15         3.03         10.92         -1.24         -2.30         13.83         1.37         -2.54         2.12           596         8.76         7.33         11.69         3.41         -1.49         -0.21         8.75         11.20         -5.48         0.59         -6.51         0.07         -0.76         -1.50           542         5.98         4.82         5.25         2.35         1.16         1.04         5.45         15.87         -4.39         0.59         0.89         0.07         -1.32         -0.19           432         1.31         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81 </td <td></td> <td>0.42<br/>0.01</td> <td>36.41</td>  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.42<br>0.01  | 36.41          |
| 122         11.61         -2.72         -8.34         1.60         -4.14         8.94         6.00         7.75         0.69         0.59         15.68         -1.22         -2.09         1.86           428         12.89         -1.46         -10.16         2.81         -2.82         9.15         3.03         10.92         -1.24         -2.30         13.83         1.37         -2.54         21.2           596         8.76         7.33         11.69         3.41         -1.49         -0.21         8.75         11.20         -5.48         0.59         -6.51         0.07         -0.76         -1.50           542         5.98         4.82         5.25         2.35         1.16         1.04         5.45         15.87         -4.39         0.59         0.89         0.07         -1.32         -0.19           436         15.61         3.56         2.74         -0.15         -0.17         4.58         -4.35         12.27         2.03         -2.30         -0.96         1.37         -2.78         3.73           130         13.13         -0.21         -1.11         0.54         -0.17         4.18         -0.72         12.28         -0.45         -2.30         <   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.67         | 36.77          |
| 428         12.89         -1.46         -10.16         2.81         -2.82         9.15         3.03         10.92         -1.24         -2.30         13.83         1.37         -2.54         2.12           596         8.76         7.33         11.69         3.41         -1.49         -0.21         8.75         11.20         -5.48         0.59         -6.51         0.07         -0.76         -1.50           542         5.98         4.82         5.25         2.35         1.16         1.04         5.45         15.87         -4.39         0.59         0.89         0.07         -1.32         -0.19           436         15.61         3.56         2.74         -0.15         -0.17         4.58         -4.35         12.27         2.03         -2.30         -0.96         1.37         -2.78         3.73           130         13.13         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81         0.07         -2.42         1.99           432         11.38         -0.21         -1.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30 <t< td=""><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.66</td><td>36.88</td></t<>   |             | + |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.66          | 36.88          |
| 596         8.76         7.33         11.69         3.41         -1.49         -0.21         8.75         11.20         -5.48         0.59         -6.51         0.07         -0.76         -1.50           542         5.98         4.82         5.25         2.35         1.16         1.04         5.45         15.87         -4.39         0.59         0.89         0.07         -1.32         -0.19           436         15.61         3.56         2.74         -0.15         -0.17         4.58         -4.35         12.27         2.03         -2.30         -0.96         1.37         -2.78         3.73           130         13.13         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81         0.07         -2.42         1.99           432         11.38         -0.21         -11.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30         20.30         0.07         -2.96         1.96           539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.50          | 37.09          |
| 542         5.98         4.82         5.25         2.35         1.16         1.04         5.45         15.87         -4.39         0.59         0.89         0.07         -1.32         -0.19           436         15.61         3.56         2.74         -0.15         -0.17         4.58         -4.35         12.27         2.03         -2.30         -0.96         1.37         -2.78         3.73           130         13.13         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81         0.07         -2.42         1.99           432         11.38         -0.21         -11.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30         20.30         0.07         -2.96         1.96           539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6.51         0.07         -0.81         0.40           211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.7   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.29          | 37.09          |
| 436         15.61         3.56         2.74         -0.15         -0.17         4.58         -4.35         12.27         2.03         -2.30         -0.96         1.37         -2.78         3.73           130         13.13         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81         0.07         -2.42         1.99           432         11.38         -0.21         -11.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30         20.30         0.07         -2.96         1.96           539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6.51         0.07         -0.81         0.40           211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.74         0.07         -0.79         -0.76           439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-0.39</td><td>37.10</td></td<>  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.39         | 37.10          |
| 130         13.13         -0.21         3.81         -0.10         1.16         3.12         -1.49         11.79         2.90         0.59         1.81         0.07         -2.42         1.99           432         11.38         -0.21         -11.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30         20.30         0.07         -2.96         1.96           539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6.51         0.07         -0.81         0.40           211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.74         0.07         -0.79         -0.76           439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30         3.66         1.37         -2.47         6.75           429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 2.26          | 37.19          |
| 432         11.38         -0.21         -11.11         0.54         -0.17         8.11         -0.72         12.78         -0.45         -2.30         20.30         0.07         -2.96         1.96           539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6.51         0.07         -0.81         0.40           211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.74         0.07         -0.79         -0.76           439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30         3.66         1.37         -2.47         6.75           429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12.91         0.07         -2.45         2.56           215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.43          | 37.58          |
| 539         9.40         6.07         7.39         3.41         -1.49         2.29         9.85         12.84         -3.87         0.59         -6.51         0.07         -0.81         0.40           211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.74         0.07         -0.79         -0.76           439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30         3.66         1.37         -2.47         6.75           429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12.91         0.07         -2.45         2.56           215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9.21         -1.22         -1.20         -0.93           437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.9   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   |               | 38.74          |
| 211         4.73         -0.21         12.04         4.62         -2.82         0.63         8.31         11.72         -4.16         3.48         2.74         0.07         -0.79         -0.76           439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30         3.66         1.37         -2.47         6.75           429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12.91         0.07         -2.45         2.56           215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9.21         -1.22         -1.20         -0.93           437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.96         1.37         -2.78         2.68           192         5.40         1.05         12.21         4.62         -2.82         0.63         8.75         11.90         -4.07         3.48         2.7   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.39         | 39.28          |
| 439         13.22         2.30         -1.01         -0.09         2.49         3.33         -8.87         17.59         3.04         -2.30         3.66         1.37         -2.47         6.75           429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12.91         0.07         -2.45         2.56           215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9.21         -1.22         -1.20         -0.93           437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.96         1.37         -2.78         2.68           192         5.40         1.05         12.21         4.62         -2.82         0.63         8.75         11.90         -4.07         3.48         2.74         0.07         -0.82         -0.76           212         6.64         2.30         13.24         3.41         -2.82         0.83         8.97         10.56         -2.85         3.48         1.81   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.06         | 39.56          |
| 429         14.80         1.05         -8.96         1.60         -2.82         9.36         3.69         9.75         0.07         -2.30         12.91         0.07         -2.45         2.56           215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9.21         -1.22         -1.20         -0.93           437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.96         1.37         -2.78         2.68           192         5.40         1.05         12.21         4.62         -2.82         0.63         8.75         11.90         -4.07         3.48         2.74         0.07         -0.82         -0.76           212         6.64         2.30         13.24         3.41         -2.82         0.83         8.97         10.56         -2.85         3.48         1.81         -1.22         -0.69         -0.32           518         7.93         3.56         11.42         4.62         -1.49         1.04         6.00         13.73         -4.78         0.59         -0.0   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.25          | 40.27          |
| 215         3.22         1.05         11.09         2.35         -0.17         -0.41         4.57         13.58         -3.37         3.48         9.21         -1.22         -1.20         -0.93           437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.96         1.37         -2.78         2.68           192         5.40         1.05         12.21         4.62         -2.82         0.63         8.75         11.90         -4.07         3.48         2.74         0.07         -0.82         -0.76           212         6.64         2.30         13.24         3.41         -2.82         0.83         8.97         10.56         -2.85         3.48         1.81         -1.22         -0.69         -0.32           518         7.93         3.56         11.42         4.62         -1.49         1.04         6.00         13.73         -4.78         0.59         -0.03         1.37         -1.15         -0.07           196         3.90         2.30         11.26         2.35         -0.17         -0.41         4.90         13.76         -3.28         3.48         9.   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.50          | 40.83          |
| 437         16.33         3.56         3.19         -0.10         2.49         3.54         -3.80         13.80         2.27         -2.30         -0.96         1.37         -2.78         2.68           192         5.40         1.05         12.21         4.62         -2.82         0.63         8.75         11.90         -4.07         3.48         2.74         0.07         -0.82         -0.76           212         6.64         2.30         13.24         3.41         -2.82         0.83         8.97         10.56         -2.85         3.48         1.81         -1.22         -0.69         -0.32           518         7.93         3.56         11.42         4.62         -1.49         1.04         6.00         13.73         -4.78         0.59         -0.03         1.37         -1.15         -0.07           196         3.90         2.30         11.26         2.35         -0.17         -0.41         4.90         13.76         -3.28         3.48         9.21         -1.22         -1.23         -0.93           135         6.05         -0.21         7.91         4.62         -2.82         3.12         9.74         13.55         -2.45         3.48         2.7   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.06         | 41.19          |
| 192       5.40       1.05       12.21       4.62       -2.82       0.63       8.75       11.90       -4.07       3.48       2.74       0.07       -0.82       -0.76         212       6.64       2.30       13.24       3.41       -2.82       0.83       8.97       10.56       -2.85       3.48       1.81       -1.22       -0.69       -0.32         518       7.93       3.56       11.42       4.62       -1.49       1.04       6.00       13.73       -4.78       0.59       -0.03       1.37       -1.15       -0.07         196       3.90       2.30       11.26       2.35       -0.17       -0.41       4.90       13.76       -3.28       3.48       9.21       -1.22       -1.23       -0.93         135       6.05       -0.21       7.91       4.62       -2.82       3.12       9.74       13.55       -2.45       3.48       2.74       0.07       -0.87       1.14         522       6.42       4.82       10.47       2.35       1.16       0.00       2.15       15.59       -4.00       0.59       6.44       0.07       -1.56       -0.22  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 2.26          | 41.54          |
| 212         6.64         2.30         13.24         3.41         -2.82         0.83         8.97         10.56         -2.85         3.48         1.81         -1.22         -0.69         -0.32           518         7.93         3.56         11.42         4.62         -1.49         1.04         6.00         13.73         -4.78         0.59         -0.03         1.37         -1.15         -0.07           196         3.90         2.30         11.26         2.35         -0.17         -0.41         4.90         13.76         -3.28         3.48         9.21         -1.22         -1.23         -0.93           135         6.05         -0.21         7.91         4.62         -2.82         3.12         9.74         13.55         -2.45         3.48         2.74         0.07         -0.87         1.14           522         6.42         4.82         10.47         2.35         1.16         0.00         2.15         15.59         -4.00         0.59         6.44         0.07         -0.87         1.15           522         6.42         4.82         10.47         2.35         1.16         0.00         2.15         15.59         -4.00         0.59         6.44 <td></td> <td>0.16</td> <td>42.56</td>  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.16          | 42.56          |
| 518         7.93         3.56         11.42         4.62         -1.49         1.04         6.00         13.73         -4.78         0.59         -0.03         1.37         -1.15         -0.07           196         3.90         2.30         11.26         2.35         -0.17         -0.41         4.90         13.76         -3.28         3.48         9.21         -1.22         -1.23         -0.93           135         6.05         -0.21         7.91         4.62         -2.82         3.12         9.74         13.55         -2.45         3.48         2.74         0.07         -0.87         1.14           522         6.42         4.82         10.47         2.35         1.16         0.00         2.15         15.59         -4.00         0.59         6.44         0.07         -1.56         -0.22   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -0.06         | 43.30          |
| 196     3.90     2.30     11.26     2.35     -0.17     -0.41     4.90     13.76     -3.28     3.48     9.21     -1.22     -1.23     -0.93       135     6.05     -0.21     7.91     4.62     -2.82     3.12     9.74     13.55     -2.45     3.48     2.74     0.07     -0.87     1.14       522     6.42     4.82     10.47     2.35     1.16     0.00     2.15     15.59     -4.00     0.59     6.44     0.07     -1.56     -0.22  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.78          | 43.51          |
| 135     6.05     -0.21     7.91     4.62     -2.82     3.12     9.74     13.55     -2.45     3.48     2.74     0.07     -0.87     1.14       522     6.42     4.82     10.47     2.35     1.16     0.00     2.15     15.59     -4.00     0.59     6.44     0.07     -1.56     -0.22  |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.16          | 44.08          |
| 522 6.42 4.82 10.47 2.35 1.16 0.00 2.15 15.59 -4.00 0.59 6.44 0.07 -1.56 -0.22   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -1.51         | 44.57          |
|  |             |   |        |                |        |   |          | - |   |   |   |             |   |            |   | 0.78          | 45.05          |
| 1   16.95   2.30   8.01   4.62   -4.14   3.74   2.48   27.48   -7.05   0.59   -6.51   0.07   -3.04   -1.97   | <u> </u>    |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.65          | 45.20          |
| 139 4.53 1.05 6.96 2.35 -0.17 2.08 5.89 15.41 -1.66 3.48 9.21 -1.22 -1.28 0.99   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | -1.51         | 46.11          |
| 193     7.32     3.56     13.41     3.41     -2.82     0.83     9.30     10.74     -2.76     3.48     1.81     -1.22     -0.72     -0.32   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 0.16          | 46.20          |
| 499         8.60         4.82         11.59         4.62         -1.49         1.04         6.33         13.91         -4.69         0.59         -0.03         1.37         -1.18         -0.07   |             |   |        |                |        |   |          |   |   |   |   |             |   |            |   | 1.00          | 46.41          |

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| Weights    | 6              | 4                  | 8                    | 4                        | 2                           | 3                   | 5            | 9                | 3               | 2                     | 10                 | 1                                 | 1                        | 3                    | 1               |                |
|------------|----------------|--------------------|----------------------|--------------------------|-----------------------------|---------------------|--------------|------------------|-----------------|-----------------------|--------------------|-----------------------------------|--------------------------|----------------------|-----------------|----------------|
|            |                |                    |                      |                          |                             |                     |              |                  |                 |                       |                    |                                   |                          |                      |                 |                |
|            |                |                    |                      |                          |                             |                     |              |                  |                 |                       |                    |                                   |                          |                      |                 |                |
|            |                | Angles             | Length Not           | Length                   |                             |                     |              | Camaiking        |                 | 0 wala a a la sia a l | Danisla satial     |                                   | Lawath Nat               |                      | Total           |                |
|            | Total          | Over 30            | Along Existing       | Through                  | Tuo moneiosio m             | Ctucous             | Wetlands in  | Sensitive        | Cuanland in     | Archaeological        | Residential        | Dublic Facilities                 | Length Not               | Flooduloin           | Total           |                |
| Route      | Length         | Degrees<br>(count) | Transmission<br>Line | Previously<br>Mined Area | Transmission Line Crossings | Stream<br>Crossings | ROW          | Species<br>Score | Cropland in ROW | Sites within<br>ROW   | Proximity<br>Score | Public Facilities within 500 feet | Along Parcel<br>Boundary | Floodplain<br>in ROW | Length<br>Karst | Total          |
| Koute      | 15.44          | 3.56               | 7.07                 | 2.35                     | -1.49                       | 2.71                | -1.27        | 29.34            | -6.26           | 0.59                  | -0.03              |                                   | -3.45                    | -2.13                | 1.65            | 46.85          |
| 519        | 9.84           | 6.07               | 12.62                | 3.41                     | -1.49                       | 1.25                |              | 12.56            | -3.48           | 0.59                  | -0.96              |                                   | -1.05                    | 0.37                 | 0.78            | 47.15          |
| 503        | 7.09           | 6.07               | 10.65                | 2.35                     | 1.16                        | 0.00                | 2.48         | 15.77            | -3.91           | 0.59                  | 6.44               | 0.07                              | -1.59                    | -0.22                | 1.00            | 47.95          |
| 136        | 7.96           | 2.30               | 9.11                 | 3.41                     | -2.82                       | 3.33                |              | 12.39            | -1.15           | 3.48                  | 1.81               | -1.22                             | -0.77                    | 1.58                 | -1.51           | 48.32          |
| 442        | 9.24           | 3.56               | 7.29                 | 4.62                     | -1.49                       | 3.54                |              | 15.56            | -3.08           | 0.59                  | -0.03              | 1.37                              | -1.23                    | 1.83                 | -0.67           | 48.53          |
| 2          | 18.86          | 4.82               | 9.21                 | 3.41                     | -4.14                       | 3.95                | 3.14         | 26.32            | -5.75           | 0.59                  | -7.43              | -1.22                             | -2.94                    | -1.53                | 1.65            | 48.95          |
| 127        | 13.60          | -3.98              | 4.11                 | 2.81                     | -1.49                       | 3.74                | 3.14         | 12.38            | 1.39            | 0.59                  | 10.13              | 1.37                              | -2.44                    | 2.56                 | 1.43            | 49.34          |
| 118        | 16.81          | 3.56               | 6.98                 | 1.65                     | -4.14                       | 6.45                | 2.92         | 25.46            | -3.85           | 3.48                  | -7.43              | -1.22                             | -3.15                    | 1.55                 | 0.88            | 49.95          |
| 500        | 10.51          | 7.33               | 12.79                | 3.41                     | -1.49                       | 1.25                | 6.88         | 12.75            | -3.39           | 0.59                  | -0.96              |                                   | -1.08                    | 0.37                 | 1.00            | 50.04          |
| 446        | 7.73           | 4.82               | 6.34                 | 2.35                     | 1.16                        | 2.50                | 3.58         | 17.42            | -2.29           | 0.59                  | 6.44               | 0.07                              | -1.64                    | 1.68                 | -0.68           | 50.07          |
| 131        | 12.09          | -2.72              | 3.16                 | 0.54                     | 1.16                        | 2.71                | -0.61        | 14.24            | 2.17            | 0.59                  | 16.61              | 0.07                              | -2.85                    | 2.40                 | 1.43            | 50.99          |
| 443        | 11.16          | 6.07               | 8.49                 | 3.41                     | -1.49                       | 3.74                | 7.98         | 14.39            | -1.77           | 0.59                  | -0.96              |                                   | -1.13                    | 2.27                 | -0.67           | 52.17          |
| 128        | 15.52          | -1.46              | 5.31                 | 1.60                     | -1.49                       | 3.95                |              | 11.22            | 2.69            | 0.59                  | 9.21               | 0.07                              | -2.34                    | 3.00                 | 1.43            | 53.09          |
| 434        | 16.80          | -0.21              | 3.49                 | 2.81                     | -0.17                       | 4.16                |              | 14.39            | 0.76            | -2.30                 | 7.36               |                                   | -2.80                    | 3.25                 | 2.26            | 53.30          |
| 425        | 20.01          | 7.33               | 6.36                 | 1.65                     | -2.82                       | 6.86                |              | 27.47            | -4.47           | 0.59                  | -10.20             | 0.07                              | -3.51                    | 2.24                 | 1.72            | 53.91          |
| 119        | 17.53          | 3.56               | 7.43                 | 1.70                     | -1.49                       | 5.41<br>3.12        | 3.47         | 27.00            | -3.60           | 3.48                  | -7.43              | -1.22<br>1.37                     | -3.16<br>-3.21           | 0.50                 | 0.88<br>2.26    | 54.05          |
| 438        | 15.29          | 1.05               | 2.54                 | 0.54                     | 2.49                        | 4.37                |              | 16.26            | 1.54            | -2.30<br>-2.30        | 13.83              |                                   |                          | 3.09                 | 2.26            | 54.84<br>56.93 |
| 435<br>426 | 18.71<br>20.73 | 2.30<br>7.33       | 4.69<br>6.81         | 1.60<br>1.70             | -0.17<br>-0.17              | 5.82                | 1.38<br>1.15 | 13.23<br>29.01   | 2.06<br>-4.23   | -2.30<br>0.59         | 6.44<br>-10.20     | 0.07                              | -2.70<br>-3.52           | 3.69<br>1.19         | 1.72            | 58.01          |
| 116        | 18.00          | -0.21              | 7.73                 | 4.62                     | -0.17<br>-4.14              | 6.03                |              | 27.59            | -4.23           | 3.48                  | 0.89               |                                   | -3.18                    | 1.19                 | 0.88            | 65.93          |
| 120        | 16.49          | 1.05               | 6.78                 | 2.35                     | -1.49                       | 4.99                |              | 29.46            | -4.33           | 3.48                  | 7.36               |                                   | -3.59                    | 0.89                 | 0.88            | 67.45          |
| 117        | 19.92          | 2.30               | 8.93                 | 3.41                     | -4.14                       | 6.24                |              | 26.43            | -3.81           | 3.48                  | -0.03              | -1.22                             | -3.08                    | 1.50                 | 0.88            | 69.56          |
| 423        | 21.20          | 3.56               | 7.11                 | 4.62                     | -2.82                       | 6.45                |              | 29.60            | -5.74           | 0.59                  | -1.88              | 1.37                              | -3.54                    | 1.75                 | 1.72            | 69.77          |
| 427        | 19.69          | 4.82               | 6.16                 | 2.35                     | -0.17                       | 5.41                | 1.93         | 31.46            | -4.95           | 0.59                  | 4.59               | 0.07                              | -3.95                    | 1.60                 | 1.72            | 71.31          |
| 424        | 23.11          | 6.07               | 8.31                 | 3.41                     | -2.82                       | 6.66                |              | 28.44            | -4.44           | 0.59                  | -2.81              | 0.07                              | -3.44                    | 2.19                 | 1.72            | 73.52          |

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| APPENDIX C – PROJECT WE | BSITE SCREENS | IOTS; WEBSITI | E MATERIALS           |
|                         |               |               |                       |
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|                         |               |               |                       |
|                         |               |               |                       |



# Wolf Creek-Blackberry

A 345 kV Transmission Line Project



# Project Overview

In October 2021, NEET Southwest was awarded to construct a new approximately 94 circuit miles of 345 kV transmission facilities from the Wolf Creek substation in Coffey County, Kansas to the Blackberry substation in Jasper County, Missouri. NEET Southwest finances, developes, constructs, owns, operates and maintains the Wolf Creek-Blackberry 345-kilovolt (kV) transmission project. The project requires regulatory approval in both Kansas and Missouri. Assuming timely regulatory approvals, the project is expected to be in-service in January 2025, and NEET Southwest will become a transmission-owning member in SPP.

The project is part of the 2019 Integrated Transmission Plan approved by SPP in October 2019 to address the needs for a more reliable and cost-effective grid. This project will reduce congestion and provide market efficiencies and benefits to ratepayers.

DOWNLOAD MAP



### Virtual Open House

NEET Southwest hosted a virtual public meeting for the project on March 22nd, 2022.

**VIRTUAL OPEN HOUSE PRESENTATION >** 

### Project Benefits

#### **Economic Development And Investment**

- · Greater access to more affordable power in the region
- Expected to provide approximately \$23.7 million in congestion savings in its first year and additional \$377 million over the next 40 years
- · Additional investment in the local economy during construction and the life of the project
- Ongoing collaboration and support of local businesses, contractors and community members

#### Minimal Environmental And Visual Impact

- Project is designed to provide most value to customers with safe, reliable and cost-effective components and materials
- · Project will utilize monopole structures to minimize tree clearing and agricultural impacts

DOWNLOAD FACT SHEET

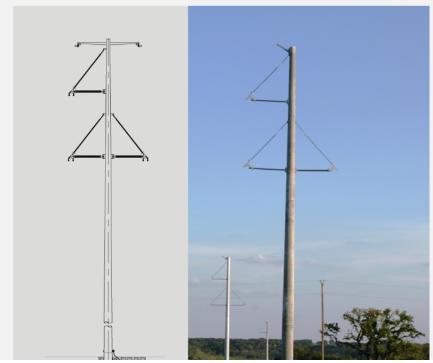


### Project Timeline



# Project Design

NEET Southwest's design provides most value to customers with safe, reliable, and cost-effective components and materials.



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# Frequently Asked Questions

Learn more about the Wolf Creek-Blackberry 345 kV Transmission Project.

#### Who is NextEra Energy Transmission Southwest?



NextEra Energy Transmission Southwest, LLC (NEET Southwest), is a direct subsidiary of NextEra Energy Transmission, LLC (NEET), both members of the NextEra Energy, Inc. (NextEra Energy) family. NextEra Energy is a leading clean-energy company and one of America's largest infrastructure capital investors in any industry.

NEET Southwest is pursuing opportunities to finance, develop, build, own, operate and maintain new transmission facilities to address economic needs in the SPP region. NEET Southwest is committed to creating long-term relationships in the communities in which it works and believes that early engagement with project stakeholders is integral to a successful project. There will be several opportunities throughout the project for stakeholders to ask questions and provide comments to the project team.

#### What is the Wolf Creek-Blackberry project?



Wolf Creek-Blackberry is an approximately 94 miles of 345 kV transmission line from the Wolf Creek substation in Coffey County in Kansas to the Blackberry substation in Jasper County, Missouri. Subject to receiving regulatory approvals, the project will have a proposed 150 feet easement width with typical above-ground transmission line structures of 125 feet tall. Final design details are not yet available and will be determined based on the results of technical studies (e.g., geotechnical, environmental) as the project progresses.

#### What is the need for this project?



SPP plans all public utility transmission throughout the region. This project is part of the 2019 Integrated Transmission Plan that identified projects to address needs for a more reliable and cost-effective grid capable of enabling a rapidly changing generation mix and new technologies and was approved by the SPP in October 2019. The Wolf Creek-Blackberry Project is one of the projects proposed as part of this plan.

#### What are the benefits of this project?



The Wolf Creek-Blackberry Project will facilitate the reliable delivery of lower-cost electricity generation. The Project will also create local employment opportunities during construction and operation of the line.



#### What governmental approvals will be required before you build?



Federal, state and county-level permits and approvals will be required to support construction and operation of the line, including environmental and county permits. NEET Southwest also plans to seek a Certificate of Convenience and Necessity and line siting approval from the Kansas Corporation Commission and a Certificate of Public Convenience and Necessity from Missouri Public Service Commission.

#### How do I get more information about these state approval processes?



NEET Southwest will be hosting virtual public meetings for the project in March 2022. Register online and learn more about the project and the state approval process.

Virtual Open House Registration

#### What is the proposed timing for this project?



NEET Southwest is targeting all regulatory approvals by end of 2022 and plans to start construction in 2023 in order to have the Wolf Creek to Blackberry transmission line in-service by 2025.



Have a question for our project team?

Call (620)205-2051 or submit your question.



# Contact Us

**NEET Southwest Transmission Project** 

### Let's Connect

Contact us at (620)205-2051 between business hours from 9am-5pm EST, email us at neetsw@nexteraenergy.com or fill out the form below.

\*All fields required.

| *Full Name    |                 | *Project Name                |    |
|---------------|-----------------|------------------------------|----|
| *Email        |                 | *Comment                     |    |
| *Phone Number |                 |                              | li |
|               | I'm not a robot | reCAPTCHA<br>Privacy - Terms |    |
|               | SUBMI           | Т                            |    |

By clicking submit, you agree to be contacted by NextEra Energy Transmission Southwest at the email and/or phone number provided in an effort to respond to your inquiry.

TERMS & CONDITIONS | PRIVACY POLICY | SAFETY POLICY | CAREERS | INVESTORS | NEWS

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# Virtual Open House Materials March 22, 2022

Wolf Creek-Blackberry Transmission Line Project

### Virtual Open House Recordings

Meeting Recording 10am-11am CT



Meeting Recording 6pm-7pm CT

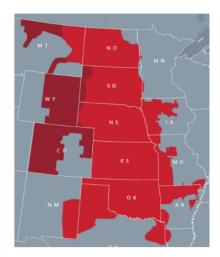


### Virtual Open House Presentation

**Background - Project Need** 



### Background – Project Need



#### Southwest Power Pool (SPP)

- A non-for-profit, regional transmission organization (RTO) mandated by the Federal Energy Regulatory Commission (FERC) to ensure safe, reliable and costeffective transmission infrastructure in the central region of the country
- In 2019, SPP identified the need for this project in its annual Integrated Transmission Plan (ITP)
- In 2021, through a competitive solicitation process which included 7 qualified bids, SPP selected
   NextEra Energy Transmission Southwest (NEET Southwest) to design, finance, build, operate and maintain this project

For more information please visit: https://www.spp.org/



### Investing in America's Energy Infrastructure

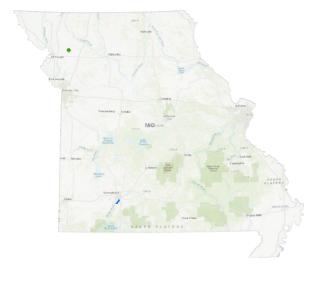
NextEra Energy Inc. (NextEra) is a leading clean energy utility infrastructure company active across North America.



- ~55,300 MW generating capacity as of year-end 2021
- ~\$119 billion in infrasturcture capital deployed since 2011
- $\sim$ 81,500 miles of transmission and distribution lines
- ~15,000 employess as os year-end 2021
- · 49 states with operations and development projects
- 4 provinces in Canada with operations and development projects

### Our Affiliates' Existing Assets in Kansas and Missouri





#### Map Key:

Green circle - NEER Wind Blue line - NEET Transmission

#### **Existing Assets:**

- · Approximately \$2.2 billion total capital investment
- Approximately \$10.8 milion annual payroll
- \$7.9 million annual land payments
- \$5.9 million inproperty taxes, 2020\*
- · Approximately 260 miles of transmission lines operating in Kansas and Missouri

<sup>\*</sup>Annual Property Taxes: Includes property tax and other indirect taxes. Internal data based on 2020 full year.

### Wolf Creek - Blackberry Project

#### What Is The Project?

This project is a new 94-mile, 345 kilovolt (kV) regulated transmission line that runs from the Wolf Creek substation (Evergy) in Kansas to the Blackberry substation (AECI) in Missouri.

#### Why Is It Needed?

The Wolf Creek-Blackberry Project is part of SPP's 2019 Integrated Transmission Plan to address the needs for a more reliable and cost-effective grid. This project will reduce congestion and provide market efficiencies and benefits to customers.

#### Where?

The project route traverses Coffey, Anderson, Allen, Bourbon and Crawford counties in Kansas, and Barton and Jasper counties in Missouri.



Project Panality



#### **Project Benefits**



### Project Benefits

The Southwest Power Pool identified the Wolf Creek-Blackberry project as needed through its Integrated Transmission Planning Process in 2019 to provide more affordable power in the region.

- Expected to provide customers \$23.7 million in congestion savings in its first year and an additional \$377 million over the next 40 years
- · Additional investment in the local economy during construction and the life of the project
- · NEET Southwest is committed to using domestically-sourced materials, local vendors and workers as much as possible
- · Estimated to provide over \$28 MM in tax revenue to Kansas and \$4 MM to Missouri over the next 40 years

#### **Routing Considerations**



### Routing Considerations

#### Socioeconomic, Landowners Impacts

- · Most direct route possible; lower cost for customers
- Reducing greenfield routing impacts for landowners by paralleling or co-locating with existing transmission lines, roads, and property lines
- · Maximizing distances from residences and public facilities
- Minimizing impacts to public airports (FAA) and Military Training Zones

#### **Environmental Impacts**

- Minimizing impacts to forested wetland and known cultural and archeological resources
- · Minimizing/avoiding protected or sensitive species and habitat impacts
- · Minimizing impacts to federal, state-owned, and tribal lands

#### Infrastructure Impacts

 Optimize clearances to existing structures, including bridges, culverts, oil and gas wells, transmission lines, telecom towers, and wind turbines

### The Electric System

Transmission is a critical component of the electric system.



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Power is generated at the plant and this could be a nuclear power plant, solar site, or wind farm. It is transmitted via the transmission power lines to the substation, where high voltage power is stepped down to a lower voltage. This lower voltage power is then distributed over distribution power lines to neighborhoods, businesses, and residences and ultimately into your homes.

Engineering Design and Construction Activities

~

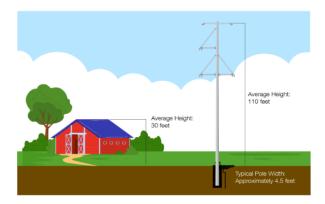


**Engineering Design and Construction Activities** 



### Engineering Design

The project was designed to use safe, reliable and cost-effective materials.



#### 1 Conductor

Twin-Bundled 1590 kcmil "Falcon" ACSS/TW HS conductor will be installed, exceeding SPP minimum capacity requirements to reduce loss throughout the line and offer excellent structural reliability.

#### 2 Structures

Steel and spun concrete monopole structures will be installed, allowing minimal visual impact on the environment given their slim profile while exceeding structural reliability and durability requirements. The average above ground pole height will be 110 feet, the average span length will be 900 feet, and the right-of-way width will be 150', which is typical for 345-kV transmission lines.

#### 3 Insulators

Braced post insulator assemblies will be installed in a delta configuration on the pole to support the conductor wires.

#### 4 OPGW

Optical Ground Wire (OPGW) will provide the best possible protection for optical fibers, reliable lightning shielding, excellent corrosion performance, and will exceed the required fault current carrying capacity.

#### 5 Foundation

Typical foundations installed will include direct embedded poles with crushed rock or unreinforced concrete backfill with an average pole diameter of 4.5 feet at the groundline. Angle structures will also be direct embedded poles supported by guy wires. Self-supporting structures placed on drilled shaft foundations will be installed at select locations to support line crossings and other constraints.

### Construction Activities

With Safety at the Forefront of Everything We Do, NEET Southwest Will:

- Construct the line with qualified, insured, experienced contractors with proven safety records and that use protocols to help prevent the spread of COVID-19
- Require its contractors to minimize disturbances, protect landowners and their property

### Activities That Will Happen Along the Project's Right-of-Way (ROW):

- Meet with landowners to address issues and questions
- · Clear ROW for construction access
- Install new foundations, poles and wires
- Clean up and restore the ROW as close to original condition as possible

Right-Of-Way Easements





#### **Right-Of-Way Easements**



### Right-of-Way Easements

#### Working with Landowners

NEET Southwest is securing options for easements from landowners whose land will be crossed by the transmission line. Following regulatory approvals of the project, NEET Southwest will finalize the purchase of the easements.

Crews and contractors may access the rights of way to conduct the following activities while the project approval process is underway:

- · Surveying
- · Cultural and natural resources assessments
- Wetlands delineations
- · Soils testing

NEET Southwest will work with landowners on an ongoing basis throughout the construction, clean up phase of the project, and beyond.

### Project Timeline V

### Project Timeline



Regulatory Approvals: 2022 Q1-Q4 ROW Acquisition: 2022 Q1-2023 Q2 Design and Engineering: 2022 Q1-2023 Q3 Environmental Permitting: 2022 Q2-2023 Q2

**Procurement:** 2022 Q4-2023 Q3 **Construction:** 2023 Q3-2024 Q4 **Commissioning:** 2024 Q3-2024 Q4 **Project In-Service:** 2025 Q1

Note: Subject to Regulatory approvals.

### Operations and Maintenance

NEET Southwest focuses on reliability and safety standards for operating transmission assets.

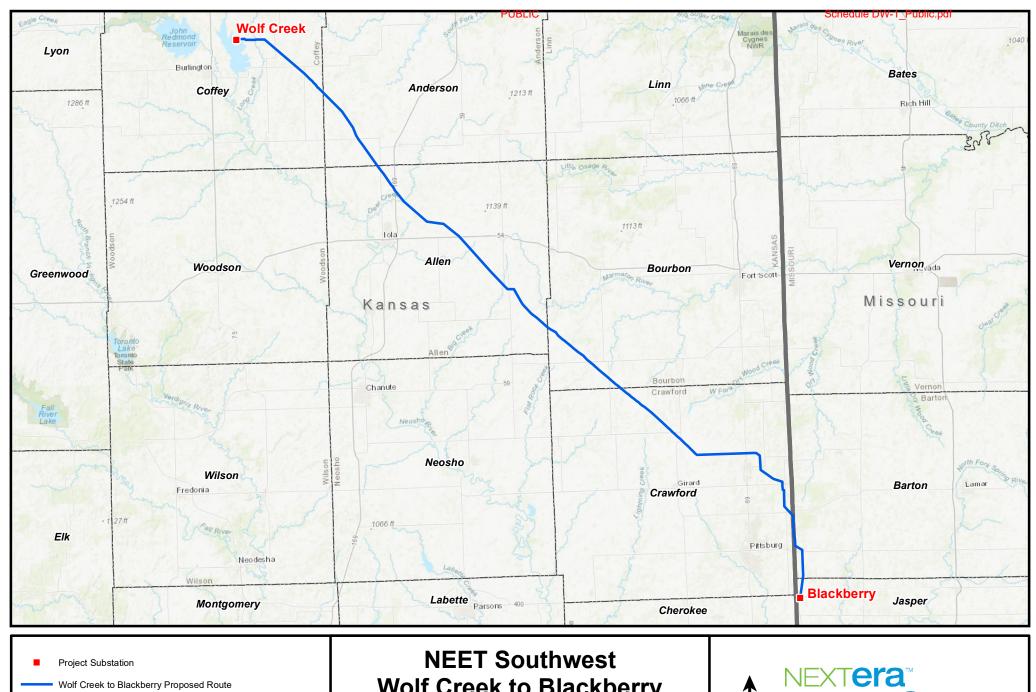
#### To do this, NEET Southwest:

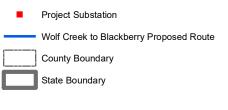
- · Monitors system on a 24-hour basis from its state-of-the-art operations control center
- · Performs regular, preventative, time-based inspections
- · Makes timely repairs when needed
- · Monitors and removes vegetation in ROW to help ensure the safe and reliable operation of the transmission line
- Supports by 70 technical staff in locations near the Project and one location within 30-minute drive from the Project mid-point

NEET Southwest provides landowners notice before accessing the ROW to perform scheduled maintenance. In the unlikely event of an emergency, NEET Southwest will immediately deploy local crews to ensure safety and resolve any issues.

### Have a question for our project team?

Call (620)205-2051 or submit your question.





# Wolf Creek to Blackberry 345kV Transmission Line

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**Fact Sheet** 

# Meeting the Transmission Needs for the Region



#### **An Experienced Partner**

NextEra Energy Transmission, LLC (NEET) is a leading competitive transmission company in North America. The company and its parent, NextEra Energy, Inc. (NextEra Energy), have a successful track record of working with local communities and regulators to build and operate complex transmission projects across North America.

On October 27, 2021, NextEra Energy Transmission Southwest, LLC (NEET Southwest) a subsidiary of NEET, was awarded the Wolf Creek-Blackberry transmission project by Southwest Power Pool (SPP).

#### **Project Overview**

- » **Developer:** NEET Southwest to finance, develop, construct, own, operate and maintain the Wolf Creek-Blackberry 345-kilovolt (kV) transmission project.
- » Project: Construct approximately 94 miles of new 345 kV transmission line that will run from Wolf Creek substation in Coffey County, Kansas to the Blackberry substation in Jasper County, Missouri.
- » Construction: The project requires regulatory approval in both Kansas and Missouri. Assuming timely regulatory approvals, the project is expected to be in-service in January 2025.

#### About NextEra Energy Transmission

- » A leading competitive transmission company, which develops, finances, constructs and operates transmission assets across North America.
- » Affiliated with Florida Power & Light, America's largest electric utility, and NextEra Energy Resources, the world's largest generator of renewable energy from the wind and sun and a world leader in battery storage.
- » Current assets include: operating transmission facilities in California Indiana, Texas, New Hampshire, Nevada, Illinois, Kentucky, Missouri, Kansas and Oklahoma; a project under construction in Ontario, Canada and New York as well as numerous other projects in development throughout the United States.







#### **Project Benefits**

#### » Economic Development And Investment

- Greater access to more affordable power in the region
- Expected to provide approximately \$23.7 million in congestion savings in its first year and additional \$377 million over the next 40 years
- Additional investment in the local economy during construction and the life of the project
- Ongoing collaboration and support of local businesses, contractors and community members

#### » Minimal Environmental And Visual Impact

- Project is designed to provide most value to customers with safe, reliable and cost-effective components and materials
- Project will utilize monopole structures to minimize tree clearing and agricultural impacts

#### **Regulatory Oversight and Permitting**



- » NEET Southwest plans to file its application for a Certificate of Convenience and Necessity (CCN) Application with Kansas Corporation Commission (KCC) in February 2022 and the Missouri Public Service Commission (MPSC) in April 2022
- NEET Southwest plans to file its Siting Application at the KCC in the second quarter of 2022, with statutory deadlines in Kansas running through approximately August 2022
- » It is NEET Southwest's goal to diligently work with the KCC and MPSC during the CCN review and approval process
- Assuming timely regulatory approvals, NEET Southwest's planned early in-service date of January 1, 2025, which represents an estimated \$14.5 MM of additional Adjusted Production Cost (APC) savings to SPP customers

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APPENDIX D – VIRTUAL OPEN HOUSE POSTCARD INVITATIONS & NEWSPAPER ADVERTISEMENTS



NextEra Faergy Transmission Southwest is hosting a virtual schedule buse to blic.pdf discuss the Wolf Creek to Blackberry 345kV Transmission Line Project. Join us to learn more about our project and the state approval process.

Due to COVID-19 and associated social distancing measures, the presentation will be held as a virtual online event. You must pre-register to receive an access code to "join" the virtual open house at the designated time.

### **VIRTUAL OPEN HOUSE**

Date: Tuesday, March 22, 2022 Morning Session: **10:00 – 11:00 a.m.** 

Evening Session: 6:00 – 7:00 p.m.



#### JOIN MEETING BY PHONE

**Morning Session** 

Dial in: 816-298-0271 Code: 853 4019#

**Evening Session** Dial in: 816-298-0271 Code: 869 083 596#



**REGISTER TO JOIN VIRTUAL MEETING** 



https://www.surveymonkey.com/r/WCBB\_nw

PLIBI Myou have questions in advance of the meeting, please email them to: neetsw@nexteraenergy.com or contact us at 620-205-2051.

