

APPENDIX B: T, E, C and Utah Special Status Animal Species

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Bonytail (<i>Gila elegans</i>)	FE	Colorado River system.	None. This species occurs in the Green River. Habitat is not present within the proposed project area.
Colorado pikeminnow (<i>Ptychocheilus lucius</i>)	FE	Colorado River system.	None. This species occurs in the Green and White Rivers. Habitat is not present within the proposed project area.
Humpback chub (<i>Gila cypha</i>)	FE	Colorado River system.	None. This species occurs in the Green River. Habitat is not present within the proposed project area.
Razorback sucker (<i>Xyrauchen texanus</i>)	FE	Colorado River system.	None. This species occurs in the Green and White Rivers. Habitat is not present within the proposed project area.
Black-footed ferret (<i>Mustela nigripes</i>)	FE	Semi-arid grasslands and mountain basins. Distribution of this species is limited to a nonessential experimental population reintroduced into Coyote Basin, Uintah County starting in 1999.	None. The distribution of this species is limited to a nonessential experimental population reintroduced into Coyote Basin, Uintah County starting in 1999. Habitat is not present within the proposed project area.
Canada Lynx (<i>Lynx lynx Canadensis</i>)	FT	Primarily occurs in Douglas-fir, Spruce-fir, and subalpine forests at elevations above 7,800 feet amsl.	None. If extant in Utah, this species most likely occurs in montane forests in the Uinta Mountains. Habitat is not present within the proposed project area.
Mexican spotted owl (<i>Strix occidentalis lucida</i>)	FT; PIF	In Utah, the species is primarily found in mesic (moister/cooler) canyons with mixed conifer or riparian components.	None. The habitat has been surveyed and determined unsuitable for nesting (Assessment of Potential Mexican Spotted Owl Nesting on BLM-Administered Lands in Northeastern Utah, September 2005).

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>)	FC; PIF	Riparian; large tracts of cottonwood/willow habitats; Lowland deciduous woodlands, alder thickets, deserted farmlands, and orchards.	None. Species is known to occur along the Green River and the Ouray National Wildlife Refuge. Habitat is not present within the proposed project area.
Greater Sage-grouse (<i>Centrocercus urophasianus</i>)	FC; PIF	Inhabits foothills, plains, mountain slopes, and other upland habitats dominated by sagebrush communities.	High. The species is widespread, but declining, with extant populations in Uintah and Duchesne counties. Habitat is present within the proposed project area.
Bluehead sucker (<i>Catostomus discobolus</i>)	CAS	Colorado River system.	None. The Bluehead sucker is native in parts of Utah. The species occurs in the upper Colorado River system. Habitat is not present within the proposed project area.
Flannelmouth sucker (<i>Catostomus latipinnis</i>)	CAS	Colorado River system.	None. The Flannelmouth sucker is native in Utah. The species occurs in the Colorado River system. Habitat is not present within the proposed project area.
Roundtail chub (<i>Gila robusta</i>)	CAS	Colorado River system.	None. The Roundtail chub is native in Utah. The species occurs in the Colorado River system. Habitat is not present within the proposed project area.
Colorado River Cutthroat trout (<i>Oncorhynchus clarkii pleuriticus</i>)	CAS	Cool, clear water and well-vegetated stream systems; thrives at high elevations. Occurs also in lakes/reservoirs.	None. Habitat is not present within the proposed project area.
Northern Goshawk (<i>Accipiter gentilis</i>)	CAS	Deciduous, coniferous, and mixed forests. Typically mature and old growth forests and generally selects larger tracts of forest over smaller tracts.	None. Prefers old-growth forests near or within large drainage systems. Habitat is not present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Bald eagle (<i>Haliaeetus leucocephalus</i>)	WSC	Bays, rivers, lakes/reservoirs that reflect the general availability of primary food sources. Roosts are typically deciduous, coniferous, or other sheltered sites in winter.	None. Bald eagles utilize ungulate winter ranges that provide carrion, and areas of open water such as the Green River. Roosting habitat does not occur within the proposed project area.
American white pelican (<i>Pelecanus erythrorhynchos</i>)	WSC; PIF	Riparian areas with open water including large rivers, lakes/reservoirs, and ponds.	None. Known to nest on islands associated with Great Salt and Utah Lakes. In northeastern Utah, the species occurs as a transient on larger water bodies. Habitat is not present within the proposed project area.
Ferruginous hawk (<i>Buteo regalis</i>)	WSC; PIF	Open country, plains, badlands; sagebrush, saltbush-greasewood shrubland, pinyon-juniper and other woodland, desert.	Moderate. This species is known to occur in the West Desert and the Uinta Basin as a summer resident and a common migrant. Within the Uinta Basin, the species is more associated with prairie dog colonies as the main prey base. No known or documented ferruginous hawk nests are within ½ mile of the proposed project well.
Burrowing owl (<i>Athene cucularia</i>)	WSC	Desert, semi-desert shrubland, grasslands, and agriculture areas. Nesting consists of flat, dry, and open terrain; short vegetation; and mammal burrows (within northeastern Utah primarily in association with prairie dog complexes) for nesting and shelter.	Moderate. Known to occur in Uintah and Duchesne counties. Nesting habitat is present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Mountain plover (<i>Charadrius montanus</i>)	WSC; PIF	Shrub-steppe habitat where vegetation is sparse and sagebrush communities are dominated by <i>Artemisia</i> spp. with components of black sage and grasses. Only known breeding population is located in the Myton Bench area.	None. The only known breeding population of mountain plover in Utah is located on Myton Bench. Habitat is not present within the proposed project area.
White-tailed prairie dog (<i>Cynomys leucurus</i>)	WSC	Inhabits grasslands, plateaus, plains and desert shrub habitats.	High. Prairie dogs are an obligate species to several other state-sensitive species, such as ferruginous hawk, mountain plover, and burrowing owl, in that these species depend on them for food, shelter, and nesting habitat or habitat manipulation. Habitat is present within the proposed project area.
Short-eared owl (<i>Asio flammeus</i>)	WSC	Inhabits arid grasslands, agricultural areas, marshes, and occasionally open woodlands. In Utah, cold desert shrub and sagebrush-rabbit brush habitats also are utilized.	None. Known to occur in Uintah County, with occurrence probable in Duchesne County. Habitat is not present within the proposed project area.
Lewis's Woodpecker (<i>Melanerpes lewis</i>)	WSC; PIF	Pine forests, riparian, agriculture, and piñon-juniper woodlands.	Low. In Utah, the species is widespread, but is an uncommon nester along the Green River. Breeding by this species has been observed in Ouray and Uintah counties, and along Pariette Wash. Habitat is poor within the proposed project area.
Three-toed Woodpecker (<i>Picoides tridactylus</i>)	WSC; PIF	Prefers coniferous forest, primarily spruce and balsam fir.	None. In Utah, the species is widespread but no habitat exists within the Project area. The Three-toed woodpecker is associated more with spruce trees and not piñon pine or Doug-fir. Habitat is not present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Grasshopper sparrow (<i>Ammodramus savannarum</i>)	WSC; PIF	Grasslands of intermediate height associated with clumped vegetation and patches of bare ground; other requirements include moderately deep litter and sparse coverage of woody vegetation.	Low. In Utah, the species is widespread and has been known to breed in Uintah, Duchesne, and Daggett counties. Habitat is present within the proposed project area.
Long-billed Curlew (<i>Numenius americanus</i>)	WSC; PIF	Shortgrass prairies, alpine meadows, riparian woodlands, and reservoir habitats.	None. Widespread migrant in Utah. Breeding birds are fairly common but localized, primarily in central and northwestern Utah. Potential nesting has been reported in Uintah County, but has not been confirmed. Habitat is not present within the proposed project area.
Bobolink (<i>Dolichonyx oryzivorus</i>)	WSC; PIF	Mesic and irrigated meadows, riparian woodlands, and subalpine marshes at lower elevations (2,800 to 5,000 feet amsl).	None. The species breeds in isolated areas of Utah, primarily in the northern half of the state. Breeding and winter habitat have been documented throughout Uintah, Duchesne, and Daggett counties. Habitat is not present within the proposed project area.
Big free-tailed bat (<i>Nyctinomops macrotis</i>)	WSC	Rocky areas in rugged country; lowlands of river floodplain-arroyo association; shrub desert and woodland habitats.	None. The species has been documented in northeastern part of the state from Daggett County into Wyoming. Habitat for this species is not present within the proposed project area.
Fringed myotis (<i>Myotis thysanodes</i>)	WSC	Caves, mines, and buildings, most often in desert and woodland areas.	None. High value and substantial value habitat exists for the species in southern Utah in lower elevations; however, the species has had a couple documented sightings along the White River. Habitat is not present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Spotted bat (<i>Euderma maculatum</i>)	WSC	Desert shrub, sagebrush-rabbit brush, pinion-juniper woodland, and ponderosa pine and montane forest habitats; lowland riparian and montane grassland habitats.	None. The species potentially occurs throughout Utah; however, no occurrence records exist for the extreme northern or western parts of the state. Known occurrences have been reported in northeastern Uintah County. Habitat is not present within the proposed project area.
Townsend's big-eared bat (<i>Corynorhinus townsendii</i>)	WSC	Semidesert shrublands and pinion-juniper woodlands to open mountain forests.	Low. The species occurs throughout much of Utah including Duchesne and Uintah counties. One individual was collected at the Ouray National Wildlife Refuge in 1980. Roosting habitat for this species potentially could occur in areas where rock cliffs and caves are present. Habitat is not present within the proposed project area.
Western (Boreal) toad (<i>Bufo boreas</i>)	WSC	Slow moving streams, wetlands, desert springs, ponds, lakes/reservoirs, and meadows.	None. The species is commonly spread throughout central and northern Utah. The only known occurrence in the Basin exists within the northwest portion of Uintah County which has substantial value habitat for the species. Habitat is not present within the proposed project area.
Corn snake (<i>Elaphe guttata</i>)	WSC	Habitat includes pine woodlands, brushy fields, open hardwood forests, mangrove thickets, barnyards, and abandoned buildings, areas near springs, old trash dumps, and caves.	None. Occurs in Uintah County. The species have been identified at Ouray National Wildlife Refuge. Habitat is not present within the proposed project area.
Smooth green snake (<i>Opheodrys vernalis</i>)	WSC	Meadows, grassy marshes, moist grassy fields at forest edges, mountain shrublands, stream borders, bogs, open moist woodland, abandoned farmland, and vacant lots.	None. Although not commonly seen throughout Utah the species has been documented in the northern section of Uintah County in lower elevations. Habitat is not present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Prairie falcon (<i>Falco mexicanus</i>)	PIF	Alpine, cliff, cropland/hedgegrow, desert, and grassland/herbaceous areas.	None. Habitat is not present within the proposed project area.
Swainson's hawk (<i>Buteo swainsonii</i>)	PIF	Grasslands, deserts, agricultural areas, shrublands, marshlands, and riparian forests.	None. Habitat is not present within the proposed project area.
Black-chinned hummingbird (<i>Archilochus alexandri</i>)	PIF	Dry lowlands and foothills with pinion-juniper woodlands.	None. Habitat is not present within the proposed project area.
Broad-tailed hummingbird (<i>Selasphorus platycercus</i>)	PIF	Open woodland, pinion-juniper, pine-oak, and conifer-aspen; brushy hillsides; montane scrub and thickets.	Moderate. Habitat is present within the proposed project area.
Brewer's sparrow (<i>Spizella breweri</i>)	PIF	Desert and shrubland/chaparral.	Moderate. Habitat is present within the proposed project area.
Cassin's finch (<i>Carpodacus cassinii</i>)	PIF	Open coniferous forest; in migration and winter also in deciduous woodland, secondary growth, scrub, brushy areas, partly open situations with scattered trees.	None. Habitat is not present within the proposed project area.
Cassin's kingbird (<i>Tyrannus vociferans</i>)	PIF	Sparse woods and dry scrub areas.	None. Habitat is not present within the proposed project area.
Clark's nutcracker (<i>Nucifraga columbiana</i>)	PIF	Open coniferous forest, forest edge and clearings, primarily in mountains, but wandering into various habitats; in winter also in lowlands.	None. Habitat is not present within the proposed project area.
Gray flycatcher (<i>Empidonax wrightii</i>)	PIF	Arid areas of sagebrush or pinion-juniper woodlands.	None. Habitat is present within the proposed project area.
Gray vireo (<i>Vireo vicinior</i>)	PIF	Dry shrubby areas, chaparral, and sparse woodlands.	Moderate. Habitat is present within the proposed project area.
Green-tailed towhee (<i>Pipilo chlorurus</i>)	PIF	Low shrubs, open pinion-juniper woodlands.	Moderate. Habitat is present within the proposed project area.

Species	Status	Habitat Association	Potential for Occurrence Within the Proposed Project area and Cumulative Effects Area
Juniper titmouse (<i>Parus inornatus</i>)	PIF	Sparse pinion-juniper and oak woodlands.	Moderate. Habitat is present within the proposed project area.
Mountain bluebird (<i>Sialia currucoides</i>)	PIF	Subalpine meadows, grasslands, shrub-steppe, savanna, and pinion-juniper woodlands.	High. Habitat is present within the proposed project area.
Pinion jay (<i>Gymnorhinus cyanocephalus</i>)	PIF	Semi-arid foothills with pinion-juniper woodlands.	Moderate. Habitat is not present within the proposed project area.
Sage sparrow (<i>Amphispiza belli</i>)	PIF	Dry sagebrush/scrublands with sparse vegetation.	High. Habitat is present within the proposed project area.
Sage thrasher (<i>Oreoscoptes montanus</i>)	PIF	Desert and shrubland/chaparral.	High. Habitat is present within the proposed project area.
Virginia's warbler (<i>Vermivora virginiae</i>)	PIF	Dry woodlands, scrub oak brushlands, canyons and ravines.	None. Habitat is not present within the proposed project area.
White-throated swift (<i>Aeronautes saxatalis</i>)	PIF	Cliffs, canyons, and ravines.	None. Habitat is not present within the proposed project area.
Wilson's phalarope (<i>Phalaropus tricolor</i>)	PIF	Grassland/herbaceous riparian and wetlands.	None. Habitat is not present within the proposed project area.

Federally Listed Species:

- FE = Federally listed as endangered;
- FT = Federally listed as threatened; and
- FC = Federally listed as candidate

BLM/State Sensitive Species:

- CAS = State Conservation Agreement Species; and
- WSC = Wildlife Species of Concern

PIF = Partners in Flight species of concern, Colorado Plateau, Utah Mountains, potentially in the Vernal Field Office.

APPENDIX C: Threatened, Endangered, Candidate, Utah Special Status Plan Species

SPECIES	STATUS	HABITAT	POTENTIAL FOR AND/OR OCCURRENCE
<i>Aquilegia scopulorum</i> var. <i>goodrichii</i> Goodrich's columbine	Sensitive	Green River shale ridges in association with Bristle cone pine, limber pine, Salina wildrye, mountain mahogany, pinyon, and Douglas fir communities. 7,400-9400 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Arabis vivariensis</i> park rock cress	Sensitive	Sandstone and limestone outcrops in mixed desert shrub and pinyon-juniper communities. 5000-6000 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Astragalus equisolensis</i> horseshoe milkvetch	Sensitive	Duchesne River Formation in sagebrush, shadscale, horsebrush and other mixed desert shrub communities. 4800-5200 ft.	None – All known populations of this species are located south of the proposed parcels & potential habitat as currently understood does not enter the parcel areas.
<i>Astragalus hamiltonii</i> Hamilton milkvetch	Sensitive	Duchesne River, Wasatch, and less commonly Mowry Shale, Dakota and other formations in pinyon-juniper and desert shrub communities. 530-6200 ft	Potential habitat for the species is present within the lease parcels
<i>Cleomella Palmeriana</i> var. <i>goodrichii</i> Goodrich's cleomella	Sensitive	Mancos Shale, Tropic Shale and Morrison formations. On eroded slopes of heavy clay in salt desert communities. 4000-6000 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Cryptantha barnebyi</i> Barneby's catseye	Sensitive	White semi-barren shale knolls of the Green River Formation in shadscale, rabbitbrush, sagebrush, and pinyon-juniper communities. 6000-7900 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Cryptantha grahamii</i> Graham's catseye	Sensitive	Green River Shale in mixed desert shrub, sagebrush, pinyon-juniper, and mountain brush communities. 5000-7400 ft	None – No populations, potential or suitable habitat occurs for this species in this area.

<i>Erigeron untermannii</i> Untermann fleabane	Sensitive	Calcareous shales and sandstones of the Uinta and Green River formations in pinyon-juniper, mountain mahogany, limber and bristlecone pine, and sagebrush communities. 7000-9400 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Frasera ackermaniae</i> Ackerman's frasera	Sensitive	Semibarren yellowish clay soils of the Chinle and Nugget formations in pinyon-juniper and desert shrub communities. 5000-6000 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Hymenoxys lapidicola</i> Rock bitterweed	Sensitive	Pinyon-juniper and ponderosa pine-manzanita communities, often in rock crevices. 6000-8100 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Lepidium barnebyanum</i> Barneby's ridgecress	Endangered	White Shale outcrops mainly on ridge crests. 6200-6500 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Lepidium huberi</i> Huber pepperplant	Sensitive	Sand or silty sands derived from the Chinle formation, and on the Park City and Weber Sandstone formations in sagebrush, snowberry, mountain mahogany, ponderosa pine, Douglas fir, lodgepole pine, and spruce-fir communities. 7300-9700 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Mentzelia goodrichii</i> Goodrich blazingstar	Sensitive	Steep, white, marly calciferous shale outcrops of the Green River formation with scattered limber pine, pinyon pine, Douglas fir, mountain mahogany, and rabbitbrush. 8100-8800 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Penstemon acaulis</i> var. <i>acaulis</i> stemless penstemon	Sensitive	Semibarren substrates in pinyon-juniper and sagebrush-grass communities. 5900-8200 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Penstemon gibbensii</i> Gibben's penstemon	Sensitive	Shaly slopes and bluffs with mixed desert shrubs and scattered juniper 5500-5600 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.

<i>Penstemon goodrichii</i> Goodrich's penstemon	Sensitive	Blue gray to reddish, clay-impregnated badlands of the Duchesne River Formation in shadscale and juniper-mountain mahogany communities 5600-6205ft.	Potential habitat for the species is present within the lease parcels
<i>Penstemon grahamii</i> Graham beardtongue	Proposed	Shale ledges and talus of the Green River Formation growing in sparsly vegetated shadscale, <i>Eriogonum</i> , horsebrush, rygrass, and pinyon-juniper communities. 4600-6800 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Penstemon scariosus</i> var. <i>albifluvis</i> White River penstemon	Candidate	Sparsely vegetated pale tan, shale slopes of the Green River formation in shadscale, rabbitbrush, ricegrass, rygrass, sagebrush, Barneby's thistle, and pinyon-juniper communities. 5000-6800 ft	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Phacelia argylensis</i> Argyle Canyon phacelia	Sensitive	Sandy-silty soil in wash bottoms on the Green River shale in pinyon-juniper, serviceberry, and Douglas Fir communities. Around 7600 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Schoenocrambe argillacea</i> Clay thelopody	Threatened	On the lower Uinta and upper Green River formations in shadscale, Indian ricegrass, pygmy sagebrush, and other mixed desert shrub communities. 4800-5600 ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	Endangered	Calcareous shale of the Green River formation in shadscale, pygmy sagebrush, mountain mahogany, juniper and mixed desert shrub communities. 5400-6000ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Sclerocactus brevispinus</i> Wagonhound cactus	Threatened	Pedimental gravels (desert pavement) over Uinta Formation within Parriet Draw, Castle Peak Draw, and the surrounding benches. . Growing in association with shadscale and sagebrush. 4700-5200ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	Threatened	Typically gravelly terraces and benchlands. . Also found in locations with desert pavement, shale outcrops, and mudstone deposits. 4500-6000ft.	None – No populations, potential or suitable habitat occurs for this species in this area.

<i>Spiranthes diluvialis</i> Ute lady's tresses	Threatened	Wet meadows, stream banks, abandoned oxbow meanders, marshes, and raised bogs. 4500-6850ft.	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Thelesperma caespitosum</i> Uinta greenthread	Sensitive	White shale benches and windswept slopes of the Green River and Uinta formation with pinyon and mountain mahogany. 5900-8400 ft,	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Townsendia strigosa</i> var. <i>prolix</i> Strigose Townsendia	Sensitive	Mixed desert shrub communities	None – No populations, potential or suitable habitat occurs for this species in this area.
<i>Yucca sterilis</i> Sterile yucca	Sensitive	Salt and mixed desert shrub communities growing in sandy soils. 4800-5800 ft.	Potential habitat for the species is present within the lease parcels

Habitat information including elevations are referenced as per A Utah Flora: 3rd edition or from survey data. Additional survey efforts may alter the suitable habitat descriptions in the future.