

Appendix D

Environmental

Species of Concern Having the Potential to Occur Within the Study Area

Common Name	Scientific Name	ESA ¹	NESL ²	NPS ³	BLM ⁴	FS ⁵	AGFD ⁶
WILDLIFE							
Birds							
American dipper	<i>Cinclus mexicanus</i>		G3				
Bald eagle	<i>Haliaeetus leucocephalus</i>	T		SC			WSC
Burrowing owl	<i>Athene canicularis</i> spp. <i>hypugaea</i>			SC	S		
California brown pelican	<i>Pelecanus occidentalis californicus</i>	E					
California condor	<i>Gymnogyps californianus</i>	E; XN					WSC
Chihuahua savannah sparrow	<i>Passerculus sandwichensis rufofuscus</i>					S	
Ferruginous hawk	<i>Buteo regalis</i>		G3	SC			
Golden eagle	<i>Aquila chrysaetos</i>		G3	SC			
Mexican spotted owl	<i>Strix occidentalis lucida</i>	T	G3				WSC
Northern goshawk	<i>Accipiter gentilis</i>					S	WSC
Peregrine falcon	<i>Falco peregrinus anatum</i>			SC		S	WSC
Sora	<i>Porzana carolina</i>		G4				
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	E	G2				WSC
Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	C	G3				WSC
Yuma rufous-crowned sparrow	<i>Aimophila ruficeps rupicola</i>					S	
Mammals							
Allen's big-eared bat	<i>Idionycteris phyllotis</i>			SC	S	S	
American pronghorn	<i>Antilocapra americana</i>		G3	SC			

Appendix D—Environmental

Common Name	Scientific Name	ESA ¹	NESL ²	NPS ³	BLM ⁴	FS ⁵	AGFD ⁶
WILDLIFE							
Arizona myotis	<i>Myotis lucifugus occultus</i>				S		
Big free-tailed bat	<i>Nyctinomops macrotis</i>			SC	S		
Bighorn sheep	<i>Ovis canadensis</i>		G3			S	
Black-footed ferret	<i>Mustela nigripes</i>	E	G2				
Cave myotis	<i>Myotis vellifer</i>			SC	S		
Chisel-toothed kangaroo rat	<i>Dipodomys microps</i>		G4				
Fringed myotis bat	<i>Myotis thysanodes</i>			SC	S		
Greater western mastiff bat	<i>Eumops perotis californicus</i>			SC			
Gunnison's prairie dog	<i>Cynomys gunnisoni</i>					S	
Long-eared myotis	<i>Myotis evotis</i>			SC	S		
Long-legged myotis	<i>Myotis volans</i>			SC		S	
Mexican long-tongued bat	<i>Choeronycteris mexicana</i>			SC			WSC
Navajo Mexican vole	<i>Microtus mexicanus navaho</i>					S	
Occult myotis	<i>Myotis occultus</i>			SC			
Pocketed free-tailed bat	<i>Nyctinomops femorosaccus</i>			SC			
Rocky mountain elk	<i>Cervus elaphus</i>		Economic				
Southwest river otter	<i>Lontra canadensis sonora</i>		G1	SC			WSC
Southwestern myotis	<i>Myotis auriculus</i>			SC			
Spotted bat	<i>Euderma maculatum</i>			SC		S	WSC
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>			SC		S	
Western red bat	<i>Lasiurus blossevillii</i>			SC			WSC
Western small-footed myotis	<i>Myotis ciliolabrum</i>			SC			
Wupatki pocket mouse	<i>Perognathus amplus cineris ammodytes</i>		G4	SC			
Fish							
Apache (Arizona) trout	<i>Oncorhynchus apache</i>	T					
Bluehead sucker	<i>Catostomus discobolus</i>		G4				
Colorado pikeminnow (Coconino Co.)	<i>Ptychocheilus lucius</i>		G2				
Desert sucker	<i>Catostomus clarki</i>				S		

North Central Arizona Water Supply Study—Report of Findings

Common Name	Scientific Name	ESA ¹	NESL ²	NPS ³	BLM ⁴	FS ⁵	AGFD ⁶
WILDLIFE							
Flannelmouth sucker	<i>Catostomus latipinnis</i>			SC	S		
Humpback chub	<i>Gila cypha</i>	E	G2				WSC
Little Colorado spinedace	<i>Lepidomeda vittata</i>	T					
Longfin dace	<i>Agosia chrysogaster</i>				S		
Mottled sculpin	<i>Cottus bairdi</i>		G4				
Razorback sucker	<i>Xyrauchen texanus</i>	E	G2				WSC
Roundtail chub	<i>Gila robusta</i>		G2				
Sonora sucker	<i>Catostomus insignis</i>				S		
Speckled dace	<i>Rhinichthys osculus</i>				S		
Amphibians							
Chiricahua leopard frog	<i>Rana chiricahuensis</i>	T					
Lowland leopard frog	<i>Rana yavapaiensis</i>						WSC
Northern leopard frog	<i>Rana pipiens</i>		G2			S	WSC
Relict leopard frog	<i>Rana onca</i>						WSC
Reptiles							
Chuckwalla	<i>Sauromalus obesus</i>				S		
Desert tortoise (Sonoran population)	<i>Gopherus agassizii</i>			SC			WSC
Milk snake	<i>Lampropeltis triangulum</i>		G4				
Rosy boa	<i>Charina trivirgata</i>				S		
Tucson shovel-nosed snake	<i>Chionactis occipitalis klauberi</i>				S		
Invertebrates							
Arizona snaketail	<i>Ophiogomphus arizonicus</i>					S	
Early elfin butterfly	<i>Incisalia (Callophrys) fotis</i>					S	
Grand Canyon cave pseudoscorpion	<i>Archeolarca cavicola</i>			SC			
Kanab ambersnail	<i>Oxyloma haydeni kanabensis</i>	E					
MacNeill sooty wing skipper	<i>Hesperopsis gracietae</i>				S		

Appendix D—Environmental

Common Name	Scientific Name	ESA ¹	NESL ²	NPS ³	BLM ⁴	FS ⁵	AGFD ⁶
WILDLIFE							
Maricopa tiger beetle	<i>Cicindela oregona maricopa</i>				S		
Mojave giant skipper	<i>Agathymus alliae</i>					S	
Montezuma well springsnail	<i>Pyrgulopsis montezumensis</i>					S	
Mountain silverspot butterfly	<i>Speyeria nokomis nitocris</i>					S	
Navajo Jerusalem cricket	<i>Stenopelmatus</i> Navajo					S	
Neumogen's giant skipper	<i>Agathymus neumogeni</i>					S	
Niobrara ambersnail	<i>Oxyloma haydeni</i> , closely related to <i>Oxyloma haydeni kanabensis</i>			SC		S	WSC
Obsolete viceroy butterfly	<i>Limenitis archippus obsolete</i>					S	
Pima orange tip	<i>Anthocharis pima</i>					S	
Spotted skipperling	<i>Piruna polingii</i>					S	
Tiger beetle	<i>Amblycheila picolomini</i> ; <i>Amblycheila schwarzi</i> ; <i>Cicindela hirticollis corpuscular</i> ; <i>Cicindela purpurea cimarrona</i>					S	
PLANTS							
Arizona bugbane	<i>Cimicifuga arizonica</i>	CA				S	
Arizona leather flower	<i>Clematis hirsutissima</i>					S	
Arizona Sonoran rosewood	<i>Vauquelinia californica</i> spp. <i>sonorensis</i>				S		
Arizona sunflower	<i>Helianthus arizonensis</i>					S	
Atwood's Catseye	<i>Cryptantha atwoodii</i>		G4	SC			
Beath milk-vetch	<i>Astragalus beathii</i>		G4	SC	S		
Brady pincushion cactus	<i>Pediocactus bradyi</i>	E	G2				
Bunchflower evening primrose	<i>Camissonia confertiflora</i>			SC			
California flannelbush	<i>Fremontodendron californica</i>				S		
Cameron water parsley	<i>Cymopterus megacephalus</i>			SC			
Cinder phacelia	<i>Phacelia serrata</i>			SC			
Cliff fleabane	<i>Erigeron saxatilis</i>					S	
Common reed	<i>Phragmites australis</i>			SC			

North Central Arizona Water Supply Study—Report of Findings

Common Name	Scientific Name	ESA ⁷	NESL ⁸	NPS ⁹	BLM ¹⁰	FS ¹¹	AGFD ⁱ
PLANTS							
Fickeisen plains cactus	<i>Pediocactus peeblesianus</i> var. <i>fickeiseniae</i>	C	G3	SC			
Flagstaff beardtongue	<i>Penstemon nudiflorus</i>					S	
Flagstaff pennyroyal	<i>Hedeoma diffusum</i>					S	
Giant sedge	<i>Carex spissa</i> var. <i>ultra</i>				S		
Grand Canyon beavertail cactus	<i>Opuntia basilaris</i> var. <i>longiareolata</i>			SC			
Grand Canyon cave-dwelling primrose	<i>Primula specuicola</i>			SC			
Grand Canyon rose	<i>Rosa stellata</i> spp. <i>stellata</i>			SC			
Kaibab agave	<i>Agave utahensis</i> spp. <i>kaibabensis</i>			SC			
Kaibab suncup (Grand Canyon evening-primrose)	<i>Camissonia specuicola</i> spp. <i>hesperia</i>			SC			
Kaibab whitlowgrass	<i>Draba asprella</i> var. <i>kaibabensis</i>			SC			
Kearney's mustard	<i>Thelypodopsis purpusii</i>			SC			
Kofa Mt. barberry	<i>Berberis harrisoniana</i>				S		
Marble Canyon milk-vetch	<i>Astragalus cremnophylax</i> var. <i>hevroni</i>		G3	SC		S	
McDougall's yellowtops	<i>Flaveria mcdougallii</i>			SC			
Mt. Dellenbaugh sandwort	<i>Arenaria aberrans</i>					S	
Murphy agave	<i>Agave murpheyi</i>				S		
Narrow scorpionweed	<i>Phacelia filliformis</i>			SC			
Navajo sedge	<i>Carex specuicola</i>	T					
Painted desert milk-vetch	<i>Astragalus sophoroides</i>		G4				
Paradine (Kaibab) plains cactus	<i>Pediocactus paradinei</i>	CA					
Parish's alkali grass	<i>Puccinella parishii</i>		G4				
Peeble's blue-star	<i>Amsonia peeblesii</i>		G4	SC			

Appendix D—Environmental

Common Name	Scientific Name	ESA ⁷	NESL ⁸	NPS ⁹	BLM ¹⁰	FS ¹¹	AGFD ⁱ
PLANTS							
Roaring Springs prickly poppy	<i>Argemone arizonica</i>			SC			
Rough whitlowgrass	<i>Draba asprella</i> var. <i>stelligera</i>			SC			
Roundleaf errazurizia (Round dunebroom)	<i>Errazurizia rotundata</i>			SC			
Rusby milkvetch	<i>Astragalus rusbyi</i>					S	
Sentry milk-vetch	<i>Astragalus cremnophylax</i> var. <i>cremnophylax</i>	E					
Siler pincushion cactus	<i>Pediocactus sileri</i>	T					
Simpson plains cactus	<i>Pediocactus simpsonii</i>			SC			
Straightbranched catchfly	<i>Silene rectiramea</i>			SC			
Sunset Crater penstemon	<i>Penstemon clutei</i>			SC			
Tumamoc globeberry	<i>Tumamoca macdougalii</i>				S		
Tusayan flameflower	<i>Talinum validulum</i>			SC			
Tusayan rabbitbrush	<i>Chrysothamnus molestus</i>					S	
Welsh phacelia	<i>Phacelia welshii</i>		G4	SC			
Welsh's milkweed	<i>Asclepias welshii</i>	T	G4				
Whiting's indigo bush	<i>Psoralea thompsoniae</i> var. <i>whitingii</i>			SC			

¹ ESA (Endangered Species Act): T=Threatened; E=Endangered; C=Candidate; CA=Conservation Agreement; XN=Experimental population

¹ NESL (Navajo Nation Endangered Species List): G2=species or subspecies whose prospects of survival or recruitment are in jeopardy; G3=species or subspecies whose prospects of survival or recruitment are likely to be in jeopardy in the foreseeable future; G4=species or subspecies which may be endangered but for which the Nation lacks sufficient information to support listing; Economic=species having economic significance to the Tribe

¹ NPS (National Park Service): SC=Identified in recent General Management Plans as a “species of special management concern.”

¹ BLM (Bureau of Land Management): S=Identified in BLM planning documents as a “sensitive species.”

¹ FS (Forest Service): S=Identified in USDA Forest Service planning documents as a “sensitive species.”

¹ AGFD (Arizona Game and Fish Department): WSC=Identified as a “wildlife of special concern.” (AGFD, Wildlife of Special Concern in Arizona, in prep.)

¹ ESA (Endangered Species Act): T=Threatened; E=Endangered; C=Candidate; CA=Conservation Agreement; XN=Experimental population