

Appendix B. Fish and wildlife species recorded by habitat in the Otter Creek Mine study area, 2011-2012.

Species	Habitat Subtype <sup>B</sup>																		Total
	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
<b>FISH</b>																			
<i>Perciformes</i>																			
Green sunfish ( <i>Lepomis cyanellus</i> )		Y <sup>a</sup>																	1
Pumpkinseed ( <i>Lepomis gibbosus</i> )		Y																	1
<i>Siluriformes</i>																			
Black bullhead ( <i>Ameiurus melas</i> )		Y																	1
<i>Cypriniformes</i>																			
Brassy minnow ( <i>Hybognathus hankinsoni</i> )		Y																	1
Fathead minnow ( <i>Pimephales promelas</i> )		Y																	1
<b>Golden shiner (<i>Notemigonus crysoleucas</i>)<sup>c</sup></b>		Y																	1
Sand shiner ( <i>Notropis stramineus</i> )		Y																	1
Lake chub ( <i>Couesius plumbeus</i> )		Y																	1
Common carp ( <i>Cyprinus carpio</i> )		X,Y																	1
White sucker ( <i>Catostomus commersoni</i> )		Y																	1
<b>AMPHIBIANS</b>																			
<i>Caudata</i>																			
Tiger salamander ( <i>Ambystoma tigrinum</i> )		Y																	1
<i>Anura</i>																			
Woodhouse's toad ( <i>Bufo woodhousii</i> )		Y																	1
Boreal chorus frog ( <i>Pseudacris maculata</i> )		X,Y									X				X				3
Northern leopard frog ( <i>Rana pipiens</i> )		X,Y																	1
<b>REPTILES</b>																			
<i>Testudines</i>																			
Snapping turtle ( <i>Chelydra serpentina</i> )		Y																	1
Painted turtle ( <i>Chrysemys picta</i> )		Y																	1
<i>Squamata</i>																			
Greater short-horned lizard ( <i>Phrynosoma hernandesi</i> )										X									1
Eastern racer ( <i>Coluber constrictor</i> )																		X	1
Gophersnake ( <i>Pituophis catenifer</i> )														X					1
<b>Common gartersnake (<i>Thamnophis sirtalis</i>)</b>															X				1
Terrestrial gartersnake ( <i>Thamnophis elegans</i> )				Y											Y				2
Prairie rattlesnake ( <i>Crotalus viridis</i> )				Y											Y		Y	X	4
<b>MAMMALS</b>																			
<i>Lagomorpha</i>																			
Desert cottontail ( <i>Sylvilagus audubonii</i> )	X			X						X						X			4
<i>Rodentia</i>																			
Porcupine ( <i>Erethizon dorsatum</i> )				X	X	X													3
Northern pocket gopher ( <i>Thomomys talpoides</i> )								X		X			X	X			X		5
Muskrat ( <i>Ondatra zibethicus</i> )		X																	1
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )																X			1
Thirteen-lined ground squirrel ( <i>Spermophilus tridecemlineatus</i> )													X			X			2
Least chipmunk ( <i>Tamias minimus</i> )				X	X	X	X												4

Appendix B (continued).

Species	Habitat Subtype <sup>B</sup>																		Total
	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
<b>Carnivora</b>																			
Coyote ( <i>Canis latrans</i> )					X	X		X	X	X			X	X			X		8
Striped skunk ( <i>Mephitis mephitis</i> )																	X		1
Badger ( <i>Taxidea taxus</i> )								X	X				X	X		X			5
Black bear ( <i>Ursus americanus</i> )															X				1
<b>Artiodactyla</b>																			
Pronghorn ( <i>Antilocapra americana</i> )		X						X	X				X	X		X	X	X	8
Mule deer ( <i>Odocoileus hemionus</i> )	X	X	X		X	X		X	X	X			X	X		X	X	X	13
White-tailed deer ( <i>Odocoileus virginianus</i> )																	X		1
<b>BIRDS</b>																			
<b>Anseriformes</b>																			
Canada goose ( <i>Branta canadensis</i> )		X												X	X		X	X	5
Wood duck ( <i>Aix sponsa</i> )		X																	1
Green-winged teal ( <i>Anas crecca</i> )		X																	1
Mallard ( <i>Anas platyrhynchos</i> )		X		X															2
Northern pintail ( <i>Anas acuta</i> )		X																	1
Blue-winged teal ( <i>Anas discors</i> )		X																	1
Northern shoveler ( <i>Anas clypeata</i> )		X																	1
Ruddy duck ( <i>Oxyura jamaicensis</i> )		X																	1
<b>Galliformes</b>																			
Gray partridge ( <i>Perdix perdix</i> )														X					1
Ring-necked pheasant ( <i>Phasianus colchicus</i> )				X	X				X		X			X	X		X	X	9
Sharp-tailed grouse ( <i>Tympanuchus phasianellus</i> )					X			X					X	X			X		5
Wild turkey ( <i>Meleagris gallopavo</i> )				X															1
<b>Pelecaniformes</b>																			
Great blue heron ( <i>Ardea herodias</i> )		X		X											X				3
<b>Accipitriformes</b>																			
Turkey vulture ( <i>Cathartes aura</i> )					X														1
Bald eagle ( <i>Haliaeetus leucocephalus</i> )				X	X								X				X		4
Northern harrier ( <i>Circus cyaneus</i> )													X	X	X		X		4
Red-tailed hawk ( <i>Buteo jamaicensis</i> )				X	X	X							X	X					5
Rough-legged hawk ( <i>Buteo lagopus</i> )				X		X				X			X				X		5
Golden eagle ( <i>Aquila chrysaetos</i> )						X							X						2
<b>Falconiformes</b>																			
American kestrel ( <i>Falco sparverius</i> )					X	X		X	X										4
Prairie falcon ( <i>Falco mexicanus</i> )	X				X	X				X									4
<b>Gruiiformes</b>																			
American coot ( <i>Fulica americana</i> )		X																	1
Sandhill crane ( <i>Grus canadensis</i> )																	X	X	2
<b>Charadriiformes</b>																			
Killdeer ( <i>Charadrius vociferus</i> )		X		X										X	X	X		X	6
Spotted sandpiper ( <i>Actitis macularia</i> )		X																	1
Upland sandpiper ( <i>Bartramia longicauda</i> )													X	X					2
Wilson's snipe ( <i>Gallinago delicta</i> )															X				1

Appendix B (continued).

Species	Habitat Subtype <sup>B</sup>																		Total
	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
<i>Columbiformes</i>																			
Eurasian collared-dove ( <i>Streptopelia decaocto</i> )			X																1
Mourning dove ( <i>Zenaidura macroura</i> )			X	X	X	X					X			X				X	7
<i>Strigiformes</i>																			
Great horned owl ( <i>Bubo virginianus</i> )					X	X								X					3
Burrowing owl ( <i>Athene cunicularia</i> )															X				1
Short-eared owl ( <i>Asio flammeus</i> )														X					1
<i>Caprimulgiformes</i>																			
Common nighthawk ( <i>Chordeiles minor</i> )								X		X			X				X	X	5
<i>Apodiformes</i>																			
White-throated swift ( <i>Aeronautes saxatalis</i> )	X					X													2
<i>Coraciiformes</i>																			
Belted kingfisher ( <i>Megaceryle alcyon</i> )		X		X															2
<i>Piciformes</i>																			
Hairy woodpecker ( <i>Picoides villosus</i> )				X	X	X													3
Northern flicker ( <i>Colaptes auratus</i> )				X	X	X			X										4
<i>Passeriformes</i>																			
Western wood-pewee ( <i>Contopus sordidulus</i> )				X	X	X													3
Least flycatcher ( <i>Empidonax minimus</i> )				X															1
Say's phoebe ( <i>Sayornis saya</i> )			X	X															2
Cassin's kingbird ( <i>Tyrannus vociferans</i> )					X														1
Western kingbird ( <i>Tyrannus verticalis</i> )				X							X								2
Eastern kingbird ( <i>Tyrannus tyrannus</i> )				X	X	X													3
Loggerhead shrike ( <i>Lanius ludovicianus</i> )				X										X					2
Pinyon jay ( <i>Gymnorhinus cyanocephalus</i> )						X													1
Black-billed magpie ( <i>Pica hudsonia</i> )			X	X	X	X				X	X				X		X		8
American crow ( <i>Corvus brachyrhynchos</i> )				X	X	X													3
Common raven ( <i>Corvus corax</i> )								X	X								X		3
Horned lark ( <i>Eremophila alpestris</i> )														X					1
Tree swallow ( <i>Tachycineta bicolor</i> )		X		X															2
Bank swallow ( <i>Riparia riparia</i> )		X		X											X		X		4
Barn swallow ( <i>Hirundo rustica</i> )			X											X			X	X	4
Black-capped chickadee ( <i>Poecile atricapillus</i> )				X	X	X					X								4
Red-breasted nuthatch ( <i>Sitta canadensis</i> )					X	X													2
White-breasted nuthatch ( <i>Sitta carolinensis</i> )					X	X													2
Rock wren ( <i>Salpinctes obsoletus</i> )	X								X										2
Canyon wren ( <i>Catherpes mexicanus</i> )	X																		1
House wren ( <i>Troglodytes aedon</i> )				X	X	X				X									4
Mountain bluebird ( <i>Sialia currucoides</i> )				X	X	X		X	X	X		X	X					X	9
Townsend's solitaire ( <i>Myadestes townsendi</i> )					X	X													2
American robin ( <i>Turdus migratorius</i> )			X	X	X	X	X			X	X		X				X	X	10
Gray catbird ( <i>Dumetella carolinensis</i> )			X								X								2
Brown thrasher ( <i>Toxostoma rufum</i> )				X							X								2
European starling ( <i>Sturnus vulgaris</i> )			X	X															2

Appendix B (continued).

Species	Habitat Subtype <sup>b</sup>																		Total
	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
Snow bunting ( <i>Plectrophenax nivalis</i> )														X					1
Yellow warbler ( <i>Setophaga petechia</i> )				X									X						2
Yellow-breasted chat ( <i>Icteria virens</i> )				X								X							2
Spotted towhee ( <i>Pipilo maculatus</i> )				X	X	X						X							4
Chipping sparrow ( <i>Spizella passerina</i> )				X	X	X													3
Vesper sparrow ( <i>Poocetes gramineus</i> )								X	X	X			X	X				X	6
Lark sparrow ( <i>Chondestes grammacus</i> )	X			X	X	X		X	X	X			X	X					9
Lark bunting ( <i>Calamospiza melanocorys</i> )														X				X	2
Savannah sparrow ( <i>Passerculus sandwichensis</i> )														X					1
Grasshopper sparrow ( <i>Ammodramus savannarum</i> )										X			X	X					3
Dark-eyed junco ( <i>Junco hyemalis</i> )					X	X	X												3
Western tanager ( <i>Piranga ludoviciana</i> )					X	X													2
Lazuli bunting ( <i>Passerina amoena</i> )				X								X							2
Red-winged blackbird ( <i>Agelaius phoeniceus</i> )		X		X	X										X		X		5
Western meadowlark ( <i>Sturnella neglecta</i> )	X		X	X	X	X	X	X	X	X			X	X		X	X	X	14
Brewer's blackbird ( <i>Euphagus cyanocephalus</i> )			X											X	X				3
Common grackle ( <i>Quiscalus quiscula</i> )			X																1
Brown-headed cowbird ( <i>Molothrus ater</i> )			X	X		X	X						X	X			X	X	8
Bullock's oriole ( <i>Icterus bullockii</i> )				X								X							2
Red crossbill ( <i>Loxia curvirostra</i> )					X	X													2
American goldfinch ( <i>Spinus tristis</i> )				X									X	X					3
<b>Total</b>	<b>8</b>	<b>25</b>	<b>13</b>	<b>44</b>	<b>35</b>	<b>34</b>	<b>5</b>	<b>13</b>	<b>13</b>	<b>16</b>	<b>14</b>	<b>1</b>	<b>20</b>	<b>33</b>	<b>14</b>	<b>10</b>	<b>23</b>	<b>17</b>	

<sup>a</sup>X = species recorded during 2011-2012; Y = species recorded by Stagliano (2013)

<sup>b</sup>Farmer (2012)

<sup>c</sup>Species in red were added to the species list in 2011-2012