Date: August 9, 2022

RE: Wildlife Report

The CO Natural Heritage Program Conservation Data Explorer (CODEX) report is provided herein. CODEX searches multiple conservation databases including CO Parks and Wildlife data for sensitive species and natural wildlife communities. The study area includes the proposed permit area and a one-mile radius buffer area.

CODEX identified one potential conversation area and two regulatory species within one-mile of the project area. Kelso's Prairie potential conservation area is within a one-mile radius of the mine but is as of the date of this report, not a conservation or preservation area. The Golden Eagle and Meadow Jumping Mouse have documented occurrences within 1 mile of the project.

The Golden Eagle habitat is open mountains and foothills, according to the National Audubon Society website. Nests site may be on a cliff ledge or in large trees. Eagle nests have not been observed in the permit area and the permit area does not contain large trees that would be suitable for nests.

Preble's meadow jumping mouse habitat is identified by US Fish and Wildlife north of Colorado Springs. The permit area is not included in the critical habitat of this species.

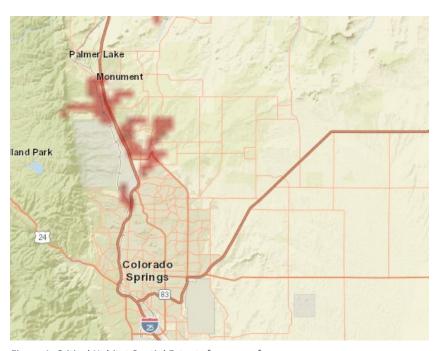


Figure 1: Critical Habitat Spatial Extents from ecos.fws.gov



# **Colorado's Conservation Data Explorer**

#### **Project Review Report**

## **Project Description**

Sand quarry amendment

#### **Project Information**

Report Generation Date: 11/3/2021 01:17:11 PM Project Title: Solberg Sand Quarry for Pioneer

User Project Number(s):

System Generated ID: CODEX-131

Project Type: Mining

Project Size: 330.61 (acres)

Latitude/Longitude: 38.907309 / -104.562420

County(s): EL PASO

Watershed(s) HUC 8: Chico

Township/Range and/or Section(s): 013S064W - 17 - 6P, 013S064W - 15 - 6P, 013S064W - 16 - 6P,

013S064W - 20 - 6P, 013S064W - 22 - 6P, 013S064W - 21 - 6P

#### **Contact Information**

Organization: Environmental Alternatives Inc.

Contact Name: Angela Bellantoni

Contact Phone: 7192758951

Contact Email: angela@envalternatives.com

Contact Address: P.O. Box 326, Canon City, CO 81215

Submitted On Behalf Of:

Prepared By:

#### **Project Report:**

The information contained herein represents the results of a search of Colorado's Conservation Data Explorer (CODEX) and can be used as notice to anticipate possible impacts or identify areas of interest. This tool queries multiple conservation datasets and includes a synthesis of Colorado Natural Heritage Program (CNHP) and Colorado Parks and Wildlife (CPW) data for sensitive species and natural communities. Care should be taken in interpreting these data.

Please note that the absence of data for a particular area, species, or habitat does not necessarily mean that these natural heritage resources do not occur on or adjacent to the project site, rather that our files do not currently contain information to document their presence. CODEX information should not replace field studies necessary for more localized planning efforts, especially if impacts to wildlife habitat are possible. Although every attempt is made to provide the most current and precise information possible, please be aware that some of our sources provide a higher level of accuracy than others, and some interpretation may be required. CODEX data is constantly updated and revised. Please contact CNHP, CPW and our partners for assistance with interpretation of this report or to obtain more information.

#### **Disclaimer:**

- 1. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review does not constitute environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the review of site-specific projects by CNHP and CPW and our partners.
- 2. This Project Report is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
- 3. The Conservation Data Explorer (CODEX) data is constantly changing and being updated and is not intended to be the final word on the potential distribution of special status species. Colorado is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. CODEX data contains information about species occurrences that have actually been reported to CNHP, CPW and our partners. Not all of Colorado has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.

# Project Review Report Review Date: 11/3/2021 01:17:11 PM

## **Location Accuracy Disclaimer:**

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

#### **Contact for CODEX Support:**

#### Colorado Natural Heritage Program (CNHP)

CNHP
Colorado State University
1475 Campus Delivery
Fort Collins, CO 80523-1475

Tel: (970) 491-7331

Email: CNHP\_codex\_support@mail.colostate.edu

CNHP Website: <a href="mailto:cnhp.colostate.edu">cnhp.colostate.edu</a>

#### Colorado Parks and Wildlife

For support regarding project review of land use impacts to wildlife, please contact the regional office in which your project resides and visit <a href="https://cpw.state.co.us/conservation/Pages/CON-Energy-Land.aspx">https://cpw.state.co.us/conservation/Pages/CON-Energy-Land.aspx</a>

CPW Website: cpw.state.co.us

#### Northeast Region

**Denver Office** 

6060 Broadway

Denver, CO 80216

Tel: (303) 291-7227

## **Southeast Region**

**Colorado Springs Office** 

4255 Sinton Road

Colorado Springs, CO 80907

Tel: (719) 227-5200

#### **Northwest Region**

#### **Grand Junction Office**

711 Independent Avenue

Grand Junction, CO 81505

**Tel:** (970) 255-6100

### **Southwest Region**

#### **Durango Office**

151 East 16th Street Durango, CO 81301

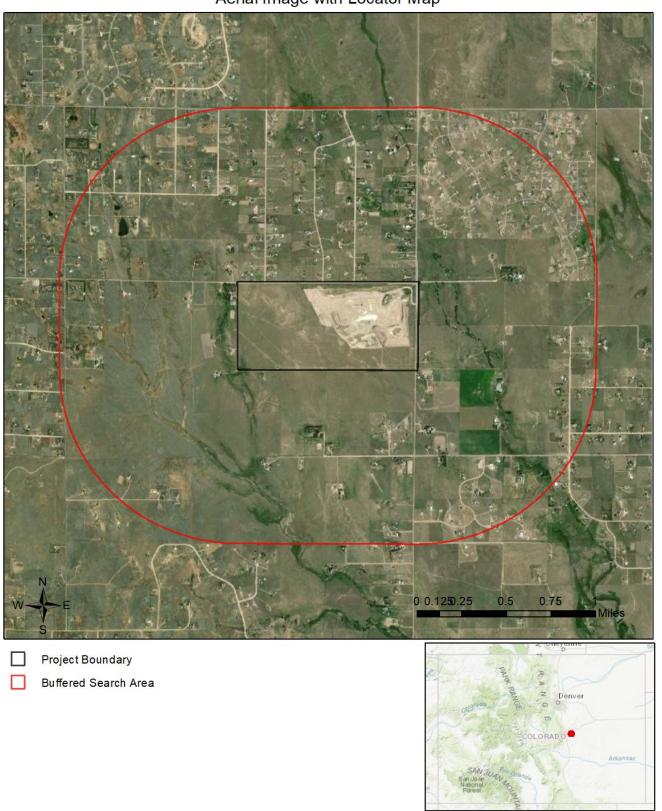
Tel: (970) 247-0855

For questions regarding CPW data in CODEX please contact 303-291-7152 or matt.schulz@state.co.us

## Solberg Sand Quarry for Pioneer Aerial Image with Locator Map

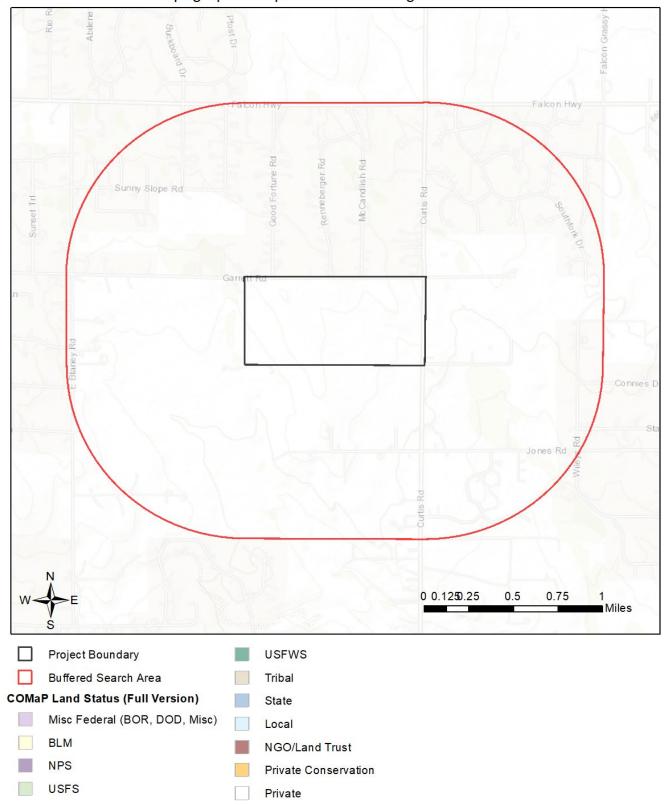
Project Review Report

Review Date: 11/3/2021 01:17:11 PM



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# Solberg Sand Quarry for Pioneer Topographic Map with Land Management Status

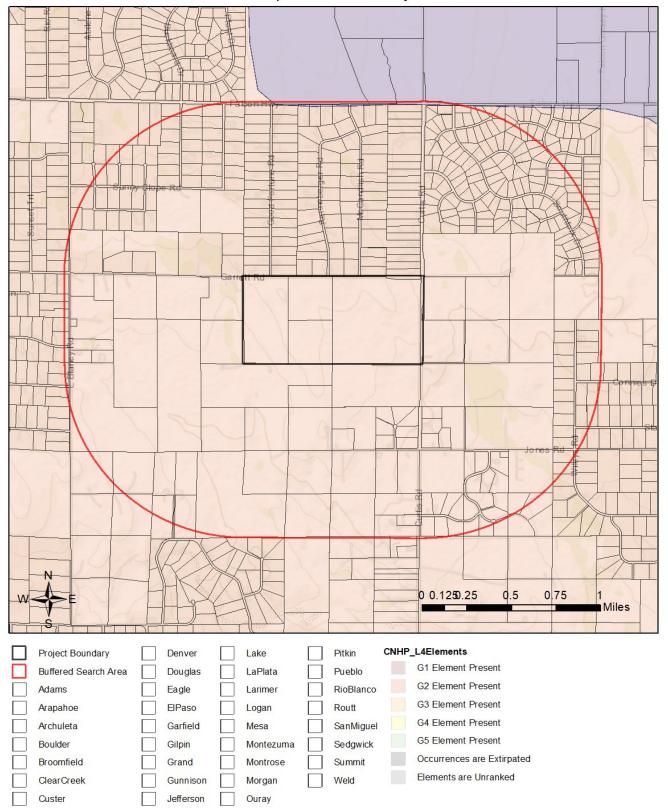


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# Review Date: 11/3/2021 01:17:11 PM

Project Review Report

#### Solberg Sand Quarry for Pioneer Web Map As Submitted By User



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Project Review Report Review Date: 11/3/2021 01:17:11 PM

## Regulatory Species

Table 1. Documented Occurrences Within 1 Miles Of Project Area

Major				Global	State	Viability	Last	ESA	СО	Other	CNHP	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier	Source
Birds	Aquila chrysaetos	Golden Eagle	CPW Breeding Range	G5	S3S4B,S 4N					BGEPA/SWAP Tier 1		CPW 20 201203
Mammals	Zapus hudsonius preblei	Meadow Jumping Mouse Subsp	CPW Overall Range	G5T2	S1			LT	ST	SWAP Tier 1		CPW 20 201203

Table 2. Potential Regulatory Species within Project Area: Models, Range Maps, or Records with Low Precision

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Birds	Aquila chrysaetos	Golden Eagle	CPW Breeding Range	G5	S3S4B,S 4N			BGEPA/SWAP Tier 1	CPW 20201203
Mammals	Zapus hudsonius preblei	Meadow Jumping Mouse Subsp	CPW Overall Range	G5T2	S1	LT	ST	SWAP Tier 1	CPW 20201203

#### Table 3. Fish & Wildlife Service Critical Habitats within 1 Miles of Project Area

No results were found for this project area.

#### **Other Species of Concern**

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

Major				Global	State	Viability	Last	ESA	СО	Other	CNHP	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier	Source
Birds	Ammodramus savannarum	Grasshopper Sparrow	CPW Breeding Range	G5	S3S4B					SWAP Tier 2/USFS		CPW 20 201203
Birds	Athene cunicularia	Burrowing Owl	CPW Breeding Range	G4	S4B				ST	BLM/SWAP Tier 1/USFS		CPW 20 201203
Birds	Buteo swainsoni	Swainson's Hawk	CPW Breeding	G5	S5B					SWAP Tier 2		CPW 20

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

Major				Global	State	Viability	Last	ESA	СО	Other	CNHP Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier Source
			Range								201203
Birds	Calamospiza melanocorys	Lark Bunting	CPW Breeding Range	G5	S4					SWAP Tier 2	CPW 20 201203
Birds	Callipepla squamata	Scaled Quail	CPW Overall Range	G5	S4						CPW 20 201203
Birds	Charadrius montanus	Mountain Plover	CPW Breeding Range	G3	S2B				SC	BLM/SWAP Tier 1/USFS	CPW 20 201203
Birds	<u>Circus hudsonius</u>	Northern Harrier	CPW Breeding Range	G5	S3B					SWAP Tier 2/USFS	CPW 20 201203
Birds	Falco mexicanus	Prairie Falcon	CPW Breeding Range	G5	S4B,S4N					SWAP Tier 2	CPW 20 201203
Birds	Melanerpes lewis	Lewis's Woodpecker	CPW Breeding Range	G4	S4					SWAP Tier 2/USFS	CPW 20 201203
Birds	Passerina amoena	Lazuli Bunting	CPW Breeding Range	G5	S5B					SWAP Tier 2	CPW 20 201203
Birds	Peucaea cassinii	Cassin's Sparrow	CPW Breeding Range	G5	S4B					SWAP Tier 2/USFS	CPW 20 201203
Birds	Selasphorus rufus	Rufous Hummingbird	CPW Migration Range	G4	SNA					SWAP Tier 2	CPW 20 201203
Birds	Spizella breweri	Brewer's Sparrow	CPW Breeding Range	G5	S4B					BLM/SWAP Tier 2/USFS	CPW 20 201203
Birds	Vermivora virginiae	Virginia's Warbler	CPW Breeding Range	G5	S5					SWAP Tier 2	CPW 20 201203
Mammals	Antilocapra americana	Pronghorn	CPW Overall Range	G5	S4						CPW 20 201203
Mammals	Cynomys Iudovicianus	Black-tailed Prairie Dog	CPW Overall Range	G4	S3				SC	BLM/SWAP Tier 2/USFS	CPW 20 201203
Mammals	Cynomys Iudovicianus	Black-tailed Prairie Dog	CPW Potential Occurrence	G4	S3				SC	BLM/SWAP Tier 2/USFS	CPW 20 201203
Mammals	Eptesicus fuscus	Big Brown Bat	CPW Overall Range	G5	S5						CPW 20 201203
Mammals	Lasionycteris noctivagans	Silver-haired Bat	CPW Overall Range	G3G4	S3S4						CPW 20 201203
Mammals	<u>Lasiurus borealis</u>	Eastern Red Bat	CPW Overall Range	G3G4	S2S3B						CPW 20 201203

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

value											
Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	Viability Rank	Last Observation	ESA Status	CO Status	Other Status	CNHP Data Identifier Source
Mammals	<u>Lasiurus cinereus</u>	Hoary Bat	CPW Overall Range	G3G4	S3S4B					SWAP Tier 2/USFS	CPW 20 201203
Mammals	Lepus townsendii	White-tailed Jackrabbit	CPW Overall Range	G5	S4					SWAP Tier 2	CPW 20 201203
Mammals	Myotis lucifugus	Little Brown Myotis	CPW Overall Range	G3	S4					SWAP Tier 1	CPW 20 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Overall Range	G5	S4						CPW 20 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Winter Range	G5	S4						CPW 20 201203
Mammals	Odocoileus virginianus	White-tailed Deer	CPW Overall Range	G5	S5						CPW 20 201203
Mammals	Perognathus fasciatus	Olive-backed Pocket Mouse	CPW Overall Range	G5	S3					SWAP Tier 1	CPW 20 201203
Mammals	Sorex nanus	Dwarf Shrew	CPW Overall Range	G4	S2					SWAP Tier 2	CPW 20 201203
Mammals	<u>Ursus americanus</u>	Black Bear	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	Aspidoscelis sexlineata	Six-lined Racerunner	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	Chrysemys picta	Painted Turtle	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	<u>Crotalus oreganus</u>	Western Rattlesnake	CPW Overall Range	G5	SNR						CPW 20 201203
Reptiles	<u>Crotalus viridis</u>	Western Rattlesnake	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	Holbrookia maculata	Lesser Earless Lizard	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	Lampropeltis gentilis	Central Plains Milk Snake	CPW Overall Range	G5	S5					SWAP Tier 2	CPW 20 201203
Reptiles	Liochlorophis vernalis	Smooth Green Snake	CPW Overall Range	G5	S4						CPW 20 201203
Reptiles	Masticophis flagellum	Coachwhip	CPW Overall Range	G5	S5						CPW 20 201203
Reptiles	Phrynosoma hernandesi	Hernandez's Short-horned	CPW Overall	G5	S5						CPW 20

Project ID: CODEX-131 Review Date: 11/3/2021 01:17:11 PM

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	Viability Rank	Last Observation	ESA Status	CO Status	Other Status	CNHP Identifier	Data Source
Огоар	ocionimo mamo	Lizard	Range	rtarity	rturrty	ram	Observation	Otatao	Status	Otatao	idonimo	201203
Reptiles	Pituophis catenifer sayi	Bullsnake	CPW Overall Range	G5T5	S5							CPW 20 201203
Reptiles	Plestiodon multivirgatus epipleurotus	Variable Skink	CPW Overall Range	G5T5	S3							CPW 20 201203
Reptiles	Plestiodon multivirgatus	Many-lined Skink	CPW Overall Range	G5	S4							CPW 20 201203
Reptiles	Sceloporus consobrinus	Fence/prairie/plateau Lizard	CPW Overall Range	G5	S5							CPW 20 201203
Reptiles	Sceloporus tristichus	Southern Plateau Lizard	CPW Overall Range	G5	S3							CPW 20 201203
Reptiles	Terrapene ornata ornata	Ornate Box Turtle	CPW Overall Range	G5T5	S5							CPW 20 201203
Reptiles	Thamnophis elegans	Western Terrestrial Garter Snake	CPW Overall Range	G5	S5							CPW 20 201203
Reptiles	Thamnophis radix	Plains Garter Snake	CPW Overall Range	G5	S5							CPW 20 201203

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Birds	Ammodramus savannarum	Grasshopper Sparrow	CPW Breeding Range	G5	S3S4B			SWAP Tier 2/USFS	CPW 20201203
Birds	Athene cunicularia	Burrowing Owl	CPW Breeding Range	G4	S4B		ST	BLM/SWAP Tier 1/USFS	CPW 20201203
Birds	Buteo swainsoni	Swainson's Hawk	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20201203
Birds	Calamospiza melanocorys	Lark Bunting	<b>CPW Breeding Range</b>	G5	S4			SWAP Tier 2	CPW 20201203
Birds	Callipepla squamata	Scaled Quail	CPW Overall Range	G5	S4				CPW 20201203
Birds	Charadrius montanus	Mountain Plover	CPW Breeding Range	G3	S2B		SC	BLM/SWAP Tier 1/USFS	CPW 20201203
Birds	Circus hudsonius	Northern Harrier	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20201203
Birds	Falco mexicanus	Prairie Falcon	CPW Breeding Range	G5	S4B,S4N			SWAP Tier 2	CPW 20201203
Birds	Passerina amoena	Lazuli Bunting	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20201203
Birds	Peucaea cassinii	Cassin's Sparrow	CPW Breeding Range	G5	S4B			SWAP Tier 2/USFS	CPW 20201203

Project Review Report Review Date: 11/3/2021 01:17:11 PM Project ID: CODEX-131

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major	Calandida Nama	Camman Nama	Data Time	Global	State	ESA	CO	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Birds	Selasphorus rufus	Rufous Hummingbird	CPW Migration Range	G4	SNA			SWAP Tier 2	CPW 20201203
Birds	Spizella breweri	Brewer's Sparrow	CPW Breeding Range	G5	S4B			BLM/SWAP Tier 2/USFS	CPW 20201203
Crayfish	<u>Hypochilus bonneti</u>		Range Map - present	GNR	SNR			SWAP Tier 2	CNHP 20210615
nsects	Amblyscirtes simius	Simius Roadside Skipper	Range Map - within range	G3	S3				CNHP 20210615
Insects	Bombus (Bombus) occidentalis	Western Bumble Bee	Range Map - within range	G4	S3S4			SWAP Tier 2	CNHP 20210615
Insects	Bombus (Thoracobombus) pensylvanicus	American Bumble Bee	Range Map - within range	G3G4	S2S3			SWAP Tier 2	CNHP 20210615
Insects	Bombus fervidus	Yellow Bumble Bee	Range Map - within range	GNR	S3S4			SWAP Tier 2	CNHP 20210615
nsects	Callophrys mossii schryveri	Moss's Elfin	Range Map - within range	G4T4	S2S3			SWAP Tier 2	CNHP 20210615
Insects	Danaus plexippus	Monarch	Range Map - present	G4	S5			SWAP Tier 2	CNHP 20210615
Insects	Epitheca petechialis	Dot-winged Baskettail	Range Map - present	G4	SNR			SWAP Tier 2	CNHP 20210615
Insects	Euphilotes rita coloradensis	Colorado Blue	Range Map - within range	G3G4T3	S2			SWAP Tier 2	CNHP 20210615
nsects	Hemileuca grotei diana	A Buckmoth	Range Map - within range	G4T3T4	S2				CNHP 20210615
Insects	Polites origenes	Cross-line Skipper	Range Map - within range	G5?	S3				CNHP 20210615
Mammals	Antilocapra americana	Pronghorn	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Cynomys Iudovicianus	Black-tailed Prairie Dog	CPW Overall Range	G4	S3		SC	BLM/SWAP Tier 2/USFS	CPW 20201203
Mammals	Cynomys Iudovicianus	Black-tailed Prairie Dog	CPW Potential Occurrence	G4	S3		SC	BLM/SWAP Tier 2/USFS	CPW 20201203
Mammals	Eptesicus fuscus	Big Brown Bat	CPW Overall Range	G5	S5				CPW 20201203
Mammals	Lasionycteris noctivagans	Silver-haired Bat	CPW Overall Range	G3G4	S3S4				CPW 20201203
Mammals	Lasiurus borealis	Eastern Red Bat	CPW Overall Range	G3G4	S2S3B				CPW 20201203
Mammals	Lasiurus cinereus	Hoary Bat	CPW Overall Range	G3G4	S3S4B			SWAP Tier 2/USFS	CPW 20201203
Mammals	Lepus townsendii	White-tailed Jackrabbit	CPW Overall Range	G5	S4			SWAP Tier 2	CPW 20201203
Mammals	Myotis lucifugus	Little Brown Myotis	CPW Overall Range	G3	S4			SWAP Tier 1	CPW 20201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Winter Range	G5	S4				CPW 20201203
Mammals	Odocoileus virginianus	White-tailed Deer	CPW Overall Range	G5	S5				CPW 20201203
Mammals	Perognathus fasciatus	Olive-backed Pocket Mouse	CPW Overall Range	G5	S3			SWAP Tier 1	CPW 20201203
Mammals	Perognathus fasciatus	Olive-backed Pocket Mouse	Range Map - within range	G5	S3			SWAP Tier 1	CNHP 20210615
Mammals	Sorex nanus	Dwarf Shrew	CPW Overall Range	G4	S2			SWAP Tier 2	CPW 20201203
Mammals	Ursus americanus	Black Bear	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Aspidoscelis sexlineata	Six-lined Racerunner	CPW Overall Range	G5	S5				CPW 20201203

Project Review Report Project ID: CODEX-131 Review Date: 11/3/2021 01:17:11 PM

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Reptiles	Chrysemys picta	Painted Turtle	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Crotalus oreganus	Western Rattlesnake	CPW Overall Range	G5	SNR				CPW 20201203
Reptiles	<u>Crotalus viridis</u>	Western Rattlesnake	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Holbrookia maculata	Lesser Earless Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Lampropeltis gentilis	Central Plains Milk Snake	CPW Overall Range	G5	S5			SWAP Tier 2	CPW 20201203
Reptiles	Liochlorophis vernalis	Smooth Green Snake	CPW Overall Range	G5	S4				CPW 20201203
Reptiles	Masticophis flagellum	Coachwhip	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Phrynosoma hernandesi	Hernandez's Short-horned Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Pituophis catenifer sayi	Bullsnake	CPW Overall Range	G5T5	S5				CPW 20201203
Reptiles	Plestiodon multivirgatus	Variable Skink	CPW Overall Range	G5T5	S3				CPW 20201203
	<u>epipleurotus</u>								
Reptiles	Plestiodon multivirgatus	Many-lined Skink	CPW Overall Range	G5	S4				CPW 20201203
Reptiles	Sceloporus consobrinus	Fence/prairie/plateau Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Sceloporus tristichus	Southern Plateau Lizard	CPW Overall Range	G5	S3				CPW 20201203
Reptiles	Terrapene ornata ornata	Ornate Box Turtle	CPW Overall Range	G5T5	S5				CPW 20201203
Reptiles	Thamnophis elegans	Western Terrestrial Garter Snake	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Thamnophis radix	Plains Garter Snake	CPW Overall Range	G5	S5				CPW 20201203

## Special Areas and Land Status

Table 6. CNHP Potential Conservation Areas and Other Special Areas within 1 Miles of Project Area

		CNHP			
Name	Data Type	Biodiversity Rank	CNHP Edit Date	CNHP Identifier	Data Source
Kelso's Prairie	CNHP PCA	B2: Very High Biodiversity Significance	2016-09-08	558	CNHP 20210920

**Project Review Report** Project ID: CODEX-131 Review Date: 11/3/2021 01:17:11 PM

**Table 7. Managed Areas within Project Area** 

Name	Owner	Manager	Management Description	Public Access <sup>*</sup>	Protection Mechanism	Easement Holder	Data Source
	PRIVATE	PRIVATE	Private Land	No	NA		COMaP v20190306

It is the responsibility of the user to verify public access on any site as access can change over time. Entering an area that is not open to the public subjects an individual to possible sanctions for trespass under Colorado law.

#### **Water and Wetlands**

Table 8. National Wetland Inventory (NWI) Features within Project Area

NWI Code	Wetland Type	Total Acres	System	Class	Water Regime	Modifier	Data Source
R4SBC	Rivers & Streams	7.35	Riverine	Stream Bed	Seasonally Flooded	None	CNHP 20210122

## **Project Report Appendix**

Please visit the <u>CNHP website</u> for a more extensive collection of definitions for CODEX reports in addition to what is provided here below.

#### **About CNHP Data**

One of CNHP's core research activities is managing a statewide database that details the locations of rare and imperiled species and natural plant communities in Colorado. We gather data from CNHP surveys and monitoring projects, as well as from partners and other trusted sources like herbariums. All of our data are compiled and managed in the Biodiversity Information Management System (Biotics), a web-enabled database platform hosted by NatureServe. The species and natural plant communities we track are assigned global and state imperilment ranks based on rarity, threats, and trends, and their locations are mapped as element occurrences. Element occurrences include spatial data as well as details on condition, size, and landscape context. This information allows us to track both overall distribution and site-specific details describing how well elements are thriving at each location. We use element occurrences to delineate Potential Conservation Areas that represent the primary area

needed to support the element occurrences, and often include additional suitable habitat or buffers from disturbance. **Please visit the CNHP website** for more definitions and details related to CNHP data in CODEX.

## **CODEX Report Definitions**

**CNHP Biodiversity Rank** – The significance of a potential conservation area in terms of its biological diversity ranging from B1 (Outstanding Biodiversity significance meaning protection of this potential conservation area can prevent a species from going extinct) to B5 (General interest or open space for more globally secure species).

**CNHP Edit Date**— The date the CNHP potential conservation area record was last updated.

**CNHP Identifier**– A unique identifier for each CNHP data type, applicable only to CNHP data records.

**CO Status** – State status per Colorado Parks & Wildlife: Endangered (SE), Threatened (ST), or State Special Concern (SC).

**Common Name** – The common name of the species or plant community.

**Critical Habitat Status** – Critical habitat status for federally listed species under the Endangered Species Act.

**Proposed** – Proposed critical habitat **Final** – Final critical habitat

**Critical Habitat Federal Register**- The volume number and first page of the federal register publication describing the critical habitat.

Managed Areas Name - Name of the managed area.

**Manager** – The general land Manager.

**Management Description** - The general category of how the feature is managed.

Other Species of Concern – Other globally rare species and plant communities, BLM or USFS sensitive species, state listed species, or Tier 1 and Tier 2 priority species from Colorado's State Wildlife Action Plan, and species of economic and recreational value.

Other Status – Other status such as BLM sensitive species (BLM), U.S Forest Service sensitive species (USFS), and Tier 1 and Tier 2 priority species from Colorado's State Wildlife Action Plan (SWAP Tier 1, SWAP Tier 2).

Owner - The general land owner.

**Public Access** – Level of public access to the feature.

**Protection Mechanism** – Any mechanism of protection assigned to the managed area.

Regulatory Species – Species with federal protection under the

HUC 10 and HUC 12 for aquatics.

Project Review Report

Review Date: 11/3/2021 01:17:11 PM

Critical Habitat Publication Date - Federal Register publication date.

Endangered Species Act or Bald and Golden Eagle Protection Act along with FWS designated critical habitat.

**Data Source** – The agency and date of the data provided.

**Return on Investment Report** - Provides maps and the estimated annual benefit in dollars of conserved ecosystem services by ecosystem type within the project area in PDF format. Ecosystem types are derived from the 2016 National Land Cover Database (NLCD).

Data Type -

Scientific Name – The scientific name of the species or plant community

**CNHP EO** – A location in which an element is, or was, present.

**Special Areas and Land Status** – CNHP Potential Conservation Areas (PCA), State Designated Natural Areas, Important Bird Areas, and managed lands from the Colorado Ownership, Management and Protection database (COMaP), SB181 High Priority Habitat

**CNHP General EO** – An element occurrence with imprecise directions; broadly mapped and typically historical or extirpated.

**Special Areas Name** – The name of the special area.

<u>CNHP Observation</u> – Sightings of species on CNHP's watchlist or sightings of tracked elements that do not meet the minimum criteria necessary to make an occurrence.

**State Rarity** - The <u>rarity rank</u> used by CNHP and The Natural Heritage Network to track how rare a species or plant community is in Colorado, ranging from S1 (rarest) to S5 (most common).

**CNHP PCA** – Areas in the state contributing to Colorado's biological diversity.

**Viability Rank** – The estimated viability of the species or ecological integrity of the natural community based on condition, size, and landscape context, ranging from A (excellent) to D (poor).

**CNHP Model** – Modeled presumed presence or habitat for a particular species.

**Water and Wetlands** – Wetland types from the <u>National Wetland</u> <u>Inventory database</u>.

**CNHP PCA (Important Plant Area)** – B1 or B2 CNHP potential conservation area supporting globally rare plants.

**CNHP Range Map** – Overall range for a particular species by

Important Bird Area – The most important places for birds as identified by the National Audubon Society.

Class - The general dominant life form of

**Class** - The general appearance of the habitat in terms of either the dominant life form of the vegetation, or the physiography and composition of the substrate.

Project Review Report Review Date: 11/3/2021 01:17:11 PM

<u>State Natural Area</u> - Areas that contain at least one unique or high-quality natural feature of statewide significance as designated by the Colorado Natural Areas Program.

**CPW <description>** - CPW data with a long list of data types: observations, nest sites, leks, etc.

**Easement Holder** – Organization or agency holding an easement (if present).

**ESA Status** – Federal status under the <u>Endangered Species Act</u>: Endangered (E), Threatened (T), or Federal Candidate (C) with qualifiers for Partial Status (PS) and experimental populations (XN).

**Global Rarity** – The <u>rarity rank</u> used by CNHP and The Natural Heritage Network to track how rare a species or plant community is globally, ranging from G1 (rarest) to G5 (most common).

**Last Observation** – The most recent field observation.

**Major group** – The major group in which the element falls: Amphibians, Birds, Crayfish, Fish, Insects, Mammals, Mollusks, Natural Communities, Nonvascular Plants, Reptiles, and Vascular Plants.

**Modifier** - Modifier assigned to further describe wetlands and deepwater habitats within the classification hierarchy based on water chemistry or ph, wetland or deepwater alteration, or soil type.

**NWI Code** – An alpha-numeric code corresponding to the classification nomenclature that best describes a particular wetland habitat. For more information on NWI data values, visit <a href="https://www.fws.gov/wetlands/data/wetland-codes.html">https://www.fws.gov/wetlands/data/wetland-codes.html</a>

**System** – A complex of wetlands and deepwater habitats that share the influence of similar hydrologic, geomorphologic, chemical or biological factors.

Water Regime - Description of water duration within a wetland habitat.

**Wetland Total Acres** - Total acres of the wetland type in the project area.

**Wetland Type** – The generalized <u>Cowardin</u> wetland type.