



CIVITAS

Crestone Peak Resources Midstream, LLC

**Wildlife Impact Management Plan (WIMP) AND
Environmental Site Assessment Report
FOR
Chico-Watkins Lateral Site Plan Amendment #12 (#1782698)**

Prepared For:



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Wildlife Impact Management Plan Applicability Statement:

This project was determined to be located in Colorado Parks and Wildlife (CPW)-mapped Pronghorn Winter Concentration Area (PAWCA) High Priority Habitat (HPH). The project is also located within the CPW-recommended 1/8-mile buffer around suitable burrowing owl habitat. This report includes: Best Management Practices (BMPs) that will be implemented as needed to address the burrowing owl habitat, the overall results of the environmental site assessment for this location, and other applicable recommendations to ensure the protection of other natural resources.

1. INTRODUCTION

RPG Resources (RPG), on behalf of Crestone Peak Resources Midstream, LLC (Civitas Resources, Inc.), conducted an environmental site assessment for the Chico-Watkins Lateral Site Plan Amendment #12 (#1782698) location to identify any wildlife or other natural resources constraint(s) present within or surrounding the proposed project area. This assessment was conducted in order to ensure Crestone Peak Resources Midstream, LLC's (CPRM) compliance with the City of Aurora Oil & Gas Division requirements, the Colorado Energy & Carbon Management Commission (ECMC) 1200 Series Rules, Endangered Species Act (ESA), Colorado Nongame, Endangered, or Threatened Species Conservation Act, Bald and Golden Eagle Protection Act (BGEPA), Migratory Bird Treaty Act (MBTA), Clean Water Act (CWA), and other applicable requirements and recommendations. This report summarizes the project location, methods, assessment results, and recommendations to avoid or minimize impacts to wildlife and other natural resources.

2. PROJECT LOCATION

CPRM's Chico-Watkins Lateral Site Plan Amendment #12 (#1782698) (Site) is located in Section 30 of Township 4 South, Range 64 West and Section 25 of Township 4 South, Range 65 West, in Arapahoe County, CO. Boundaries of the Site are defined as the limits of disturbance, including the permanent easement and temporary workspace. The Site is in the Western Great Plains Range and Irrigated Region Land Resource Region (LRR) of the Central High Plains, Southern Part Major Land Resource Region (MLRA; NRCS 2006), and the field-verified surrounding land types are cropland, oil and gas, and residential.

3. METHODS

RPG's environmental site assessment included a desktop review of aerial imagery, agency-mapped sensitive natural resources, and a site-specific U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consulting (IPaC) report. Following the desktop review, RPG conducted a windshield and pedestrian field site survey on March 11, 2024. The field survey was conducted by a qualified biologist and included surveys for potential nesting raptors within ½ mile as well as any burrowing owl habitat / prairie dog colonies within 1/8 mile (660 feet) of the Site (Appendix B). Although the field survey was conducted outside the standard Colorado non-raptor migratory bird breeding season, potentially suitable habitat for non-raptor nesting was also assessed during the site visit. Recommendations to avoid and minimize impacts to wildlife and other sensitive natural resources were provided based on the results of the assessment and the proposed start date.

4. RESULTS & RECOMMENDATIONS

4.1. High Priority Habitats

The Site is located within CPW-mapped Pronghorn Winter Concentration Area HPH.

Recommend limiting construction activities between May 1 and December 31 to avoid PAWCA HPH season.

4.2. Bald and Golden Eagles

No bald eagle (*Haliaeetus leucocephalus*) or golden eagle (*Aquila chrysaetos*) nests or nesting activity were observed during the Site visit. There are trees physically suitable for eagle nesting within ½ mile. There are no CPW-mapped bald eagle winter night roost areas within ½ mile of the Site.

If construction begins between December 1 and July 31, additional eagle nesting surveys are recommended.

4.3. Burrowing Owls

There is suitable burrowing owl habitat (i.e., black-tailed prairie dog colony) approximately 900 feet east of the Site, further than the CPW-recommended 1/8-mile. The site assessment was conducted outside the typical burrowing owl season, and this colony is not mapped by CPW as known burrowing owl nest sites.

If construction begins between March 15 and October 31, burrowing owl habitat surveys, in accordance with CPW-recommended protocol, are recommended to ensure habitat has not expanded within 1/8-mile of the Site.

4.4. Other Raptors

Two active great horned owl (GHOW) nests were identified within ½ mile of the Site, approximately 0.19 mile east of the Site and 0.28 mile northeast of the Site. There is additional habitat suitable for nesting non-eagle raptors, however, no other raptor nests or nesting behavior was observed at the time of the site assessment. Both great horned owl nests are further than the CPW-recommended buffer distance of 328-feet (100 meters).

If construction begins between February 1 and August 15, additional raptor nesting surveys are recommended.

4.5. Migratory Birds

The Site assessment was conducted outside the standard Colorado non-raptor migratory bird nesting season. No nests or nesting activity were observed; however, suitable nesting habitat, including surface topography, vegetation, and artificial structures, is present at and immediately surrounding the Site.

If construction begins between April 1 and August 31, migratory bird nesting surveys are recommended.

4.6. Threatened, Endangered, and Candidate Species

The USFWS IPaC report included eight (8) federally listed threatened, endangered, or candidate species that have potential to be in the geographical area in which the site is located. However, no suitable habitat for any of these species was identified at the Site during the field survey (Table 1).

Table 1. IPaC Report Results & Assessment

Species	Habitat Description	Results & Recommendations
Mammals		
Preble's meadow jumping mouse <i>Zapus hudsonius preblei</i> Threatened	The Preble's meadow jumping mouse (PMJM) inhabits well-developed riparian habitat with a dense combination of multi-story vegetation, adjacent and relatively undisturbed grassland habitat, and a nearby water source. The PMJM uses uplands at least as far out as 100 meters beyond the 100-year floodplain.	No suitable habitat is present within the Site. No recommended action.
Tricolored Bat <i>Perimyotis subflavus</i> Proposed Endangered	The tricolored bat primarily roosts among live and dead leaf clusters of live or recently dead deciduous hardwood trees. In addition, they have been observed roosting during summer among pine needles, within artificial roosts like barns, beneath porch roofs, bridges, concrete bunkers, and rarely within caves. In winter they hibernate in cave and mines or in road-associated culverts, as well as sometimes in tree cavities and abandoned water wells.	No habitat supporting tricolored bat roosting or hibernating was observed at the Site. No recommended action.

Birds		
Piping plover <i>Charadrius melodus</i> Threatened	The piping plover breeds on bare sand or gravel beaches, sandbars, or islands along rivers, reservoirs, or alkaline wetlands. Limited numbers breed in Colorado.	No suitable habitat is present within the Site. No recommended action.
Whooping crane <i>Grus americana</i> Endangered	The whooping crane breeds, nests, migrates, winters, and forages in wetlands, coastal marshes, estuaries, inland marshes, lakes, ponds, wet meadows and rivers, and agricultural fields. There are no known populations currently present in Colorado.	No suitable habitat present within the Site. No river depletions or other impacts to potential downstream habitats expected to occur. No recommended action.
Fish		
Pallid sturgeon <i>Scaphirhynchus albus</i> Endangered	The pallid sturgeon is a bottom-oriented, large river obligate fish that is found in the Missouri and Mississippi rivers and some tributaries. There are no known populations currently present in Colorado.	No suitable habitat is present within the Site. No river depletions or other impacts to potential downstream habitats expected to occur. No recommended action.
Insects		
Monarch butterfly <i>Danaus plexippus</i> Candidate	Although Critical Habitat Documents are not currently available for the monarch butterfly, this species almost exclusively utilizes milkweed (<i>Asclepias</i> spp.) for breeding and reproduction. During spring migration, this species will commonly nectar on <i>Coreopsis</i> spp., <i>Viburnum</i> spp. and <i>Phlox</i> spp. Additionally, western populations rely on various native and non-native evergreen and deciduous trees as roost sites during nighttime migration periods. Note: The monarch butterfly is a candidate species and not yet listed or proposed for listing.	No suitable habitat is present within the Site. No recommended action.

Flowering Plants		
Ute ladies'-tresses <i>Spiranthes diluvialis</i> Threatened	The Ute ladies'-tresses is primarily found in moist meadows and may also be found in seasonally flooded river terraces, sub-irrigated or spring-fed abandoned stream channels, lakeshores, irrigation canals, berms, levees, irrigated meadows, reservoirs, and other similar habitat.	No suitable habitat is present within the Site. No river depletions or other impacts to potential downstream habitats expected to occur. No recommended action.
Western prairie fringed orchid <i>Platanthera praeclara</i> Threatened	The western prairie fringed orchid is a perennial species most often found in unplowed, calcareous prairies and sedge meadows and dependent on moist soils. There are no known populations currently present in Colorado.	No suitable habitat is present within the Site. No river depletions or other impacts to potential downstream habitats expected to occur. No recommended action.

The only Colorado state-listed threatened or endangered (T&E) species that has potential to occur at the Site is the burrowing owl, which is discussed above.

No further action is recommended for federally listed species.

4.7. Wetlands and Waters of the U.S.

The Site intersects one (1) previously mapped NHD/NWI mapped feature. The previously mapped NWI temporarily flooded intermittent riverine with a streambed, and previously mapped NHD intermittent stream. This feature was field verified to not be present. An ephemeral stream was observed and delineated approximately 35 feet east of the Site (see inset map). No other wetlands or waters of the U.S. were found within 500 feet of the site during the site assessment.

No impact to this stream feature is expected to occur as a result of work operations.

4.8. 100-year Floodplain

The Site is not located within any Federal Emergency Management Agency (FEMA)-mapped 100-year floodplain.

No further action is recommended.

4.9. Noxious Weeds and Vegetation

Colorado state-listed noxious weeds including cheatgrass (*Bromus tectorum*) and common mullein (*Verbascum Thapsus*) were observed along the pipeline.

No further action is recommended.

4.10. Safety and Other Concerns

No safety or other concerns were identified at the Site.

No recommended action.

SUMMARY TABLE

Natural Resource	Result Summary	Recommendation
High Priority Habitats	The Site is located within CPW-mapped Pronghorn Winter Concentration Area HPH.	Recommend limiting construction activities between May 1 and December 31 to avoid PAWCA HPH season.
Bald and Golden Eagles	No bald or golden eagle nests were observed; however, there is habitat suitable for eagle nesting within ½ mile of the Site. There are no bald eagle winter night roost areas within ½ mile.	If work begins between December 1st and July 31st, additional eagle nesting surveys are recommended within approximately one week of the start of construction.
Burrowing Owls	There is suitable burrowing owl habitat (i.e., black-tailed prairie dog colony) approximately 900 feet east of the Site, further than the CPW-recommended 1/8-mile.	If construction begins between March 15 and October 31, burrowing owl habitat surveys, in accordance with CPW-recommended protocol, are recommended to ensure habitat has not expanded within 1/8-mile of the Site.
Other Raptors	Two GHOW nests are present within ½-mile of the Site, however both nests are further than the CPW-recommended species-specific buffer. There is additional habitat suitable for non-eagle raptor nests within ½ mile of the Site.	If work begins between February 1 and August 15, raptor nesting surveys are recommended within approximately one week of the start of construction.
Migratory Birds	The field survey was conducted outside the standard Colorado migratory bird nesting season; no active non-raptor migratory bird nests or nesting activity were observed.	If work begins between April 1 and August 31, migratory bird nesting surveys are recommended within one week of the start of construction.
Threatened, Endangered, and Candidate Species	There is no suitable habitat for any threatened, endangered, or candidate species that may occur within the Site.	No recommended action.
Wetlands and Waters of the U.S.	The Site intersects one (1) previously mapped NHD/NWI mapped feature. This feature was field verified to not be present. An ephemeral stream was observed and delineated approximately 35 feet east of the Site.	No impact to this stream feature is expected to occur as a result of work operations.
100-Year Floodplain	The Site is not located within any Federal Emergency Management Agency (FEMA)-mapped 100-year floodplain.	No recommended action; operations are not expected to impact these features.
Safety and Other Concerns	No safety or other concerns were identified at the Site.	No recommended action.

5. SUMMARY

No active wildlife constraints were observed at the time of the field survey. However, suitable nesting habitat for raptors, including eagles and other migratory birds, was identified within applicable CPW-recommended species-specific buffers. If construction begins between December 1 and October 31, additional wildlife surveys are recommended to ensure no new active nests or other wildlife constraints are present. The site is within Pronghorn Winter Concentration Area (PAWCA) HPH; construction will occur from May 1 through December 31 and CPW's recommended pronghorn habitat seed mix will be used unless the surface owner requests otherwise.

The Site intersects one (1) previously mapped NHD/NWI mapped feature. This feature was field verified to not be present. An ephemeral stream was observed and delineated approximately 35 feet east of the Site. No impact to this stream feature is expected as a result of construction operations.

CPRM and all associated contractors agree to adhere to all relevant operating requirements outlined in this plan. In addition to the standard operating requirements, supplementary measures and protocols may be implemented in response to specific needs identified at the Site.

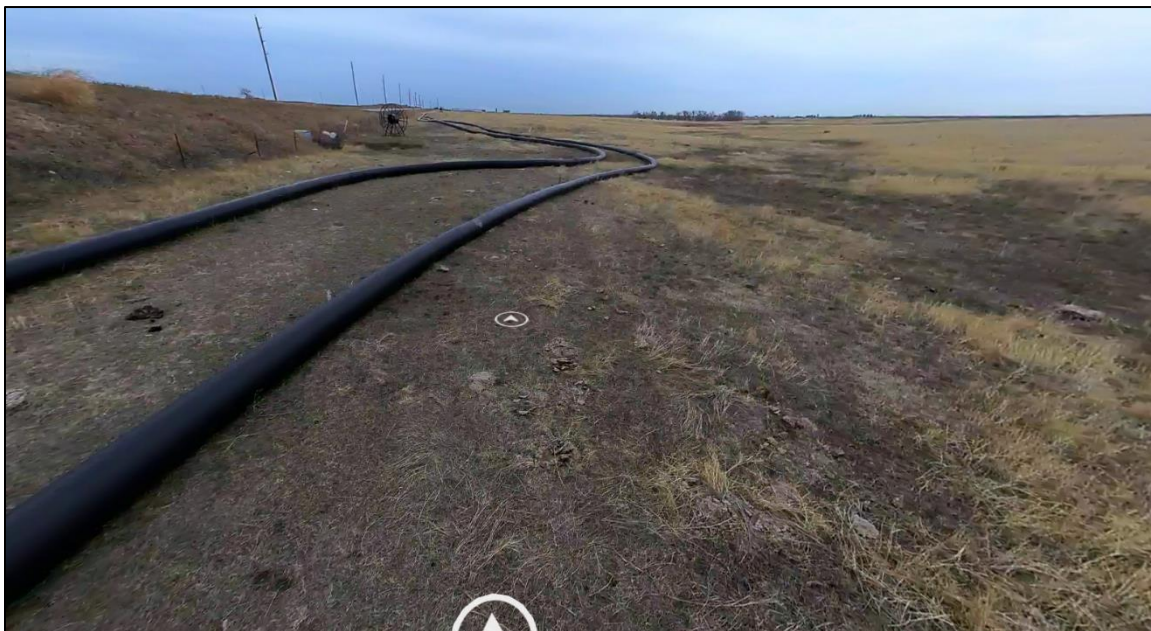
PHOTOS



1. Western terminus facing east along the easement.



2. Center of western leg facing east along the easement.



3. Center of the southern leg facing north along the easement.



4. Southern terminus facing north along the easement.



5. Overview of ephemeral stream facing northeast, approximately 95 feet east of Watkins Rd.



6. Overview of ephemeral stream facing southwest, approximately 55 feet east of Watkins Rd.

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APPENDIX A
Environmental Site Assessment



ENVIRONMENTAL SITE ASSESSMENT



Project Name:	Chico-Watkins Lateral Site Plan Amendment #12	County, State:	Arapahoe County, CO
Inspection Date:	3/11/2024	Region:	DJ Basin
Inspector Name:	Emma Johnson	Location:	§30 T4S R64W and S25 T4S R65W
ESA Type:	Linear Easement	Project Lat-Long:	39.681271, -104.603381

RAPTORS

Bald and Golden Eagle Active Nests:	No	Status:	TEMPORARILY CLEARED
There is suitable eagle nesting habitat within ½ mile of the Site, however, no bald eagle or golden eagle nests or nesting activity were observed during the field survey.			
Bald Eagle Winter Night Roost/Communal Roost:	No	Status:	CLEARED
There are no CPW-mapped bald eagle winter night roosts / communal roosts within 1/2 mile of the Site. Not a constraint.			
*Burrowing Owls:	No	Status:	TEMPORARILY CLEARED
There is suitable burrowing owl habitat (i.e., black-tailed prairie dog colony) approximately 900 feet east of the Site, further than the CPW-recommended 1/8 mile.			
Other Active Raptor Nests:	No	Status:	TEMPORARILY CLEARED
There are two active great horned owl nests within 1/2 mile of the site, however both nests are further than the CPW-recommended species-specific buffer. There is additional habitat suitable for non-eagle raptor nests within 1/2-mile of the Site, however, no other raptor nests or nesting activity were observed.			

OTHER BIRDS

Grouse or Prairie Chicken High Priority Habitats:	No	Status:	CLEARED
The Site is not within any grouse or prairie chicken HPHs. Not a constraint.			
Non-Raptor Migratory Bird Nests:	No	Status:	TEMPORARILY CLEARED
No active nests or nesting activity were observed during the survey; however, suitable nesting habitat (e.g., vegetation, structures, etc.) is present at and immediately surrounding the Site.			

MAMMALS

Big Game High Priority Habitats:	Yes	Status:	SEASONAL AVOIDANCE
The Site is located within Pronghorn Winter Concentration Area. Construction will occur from May 1 through December 31.			
** Preble's Meadow Jumping Mouse (PMJM) Habitat:	No	Status:	CLEARED
The Site is not located in a USFWS-mapped PMJM Block Clearance Zone, and no suitable PMJM habitat was observed at the Site.			
Swift Fox Habitat/Dens:	No	Status:	CLEARED
The eastern part of the Site is within CPW-mapped swift fox overall range; however, no swift fox habitat was observed during the survey.			

VEGETATION

**Ute ladies'-tresses orchid (ULTO):	No	Status:	CLEARED
There is no suitable Ute ladies'-tresses orchid habitat at the Site. Not a constraint.			
Colorado State Noxious Weeds - List A,B,C:	Yes	Status:	CLEARED
Cheatgrass and common mullein were observed among the easement.			

Current Land Use:	O&G & Cropland	Future Land Use:	O&G & Cropland
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AQUATIC HABITATS

Aquatic High Priority Habitats:	No	Status:	CLEARED
There are no Aquatic High Priority Habitats within 1000 feet of the Site. Not a constraint.			
Wetlands/WOUS:	No	Status:	CLEARED
The Site intersects one (1) previously mapped NHD/NWI mapped feature. This feature was field verified to not be present. An ephemeral stream was observed and delineated approximately 35 feet east of the Site. No impact to this stream feature is expected to occur as a result of work operations.			


CIVITAS

Crestone Peak Resources Midstream, LLC

ENVIRONMENTAL SITE ASSESSMENT



OTHER/SAFETY

Other Issues:	No	Status:	CLEARED
None.			
Safety Issues:	No	Status:	CLEARED
None.			

FIELD DATA COLLECTED

GENERAL COMMENTS

Site Photos:	Yes	There are two active raptor nests within a half-mile of the Site and additional suitable nesting habitat for raptors and other migratory birds within applicable CPW-recommended species-specific buffers. There is suitable BUOW habitat approximately 900 feet east of the Site, further than the CPW-recommended species-specific buffer. The Site is within big-game (PAWCA) high-priority habitat.
Reference Area Photos:	Yes	
Updated Aerial Imagery Taken?:	Yes	
Ground Control Points?:	Yes	
Wetland Determination Data Form?	No	

Reviewed By:

Russell Beam
Title: Senior Environmental Manager

Signature:

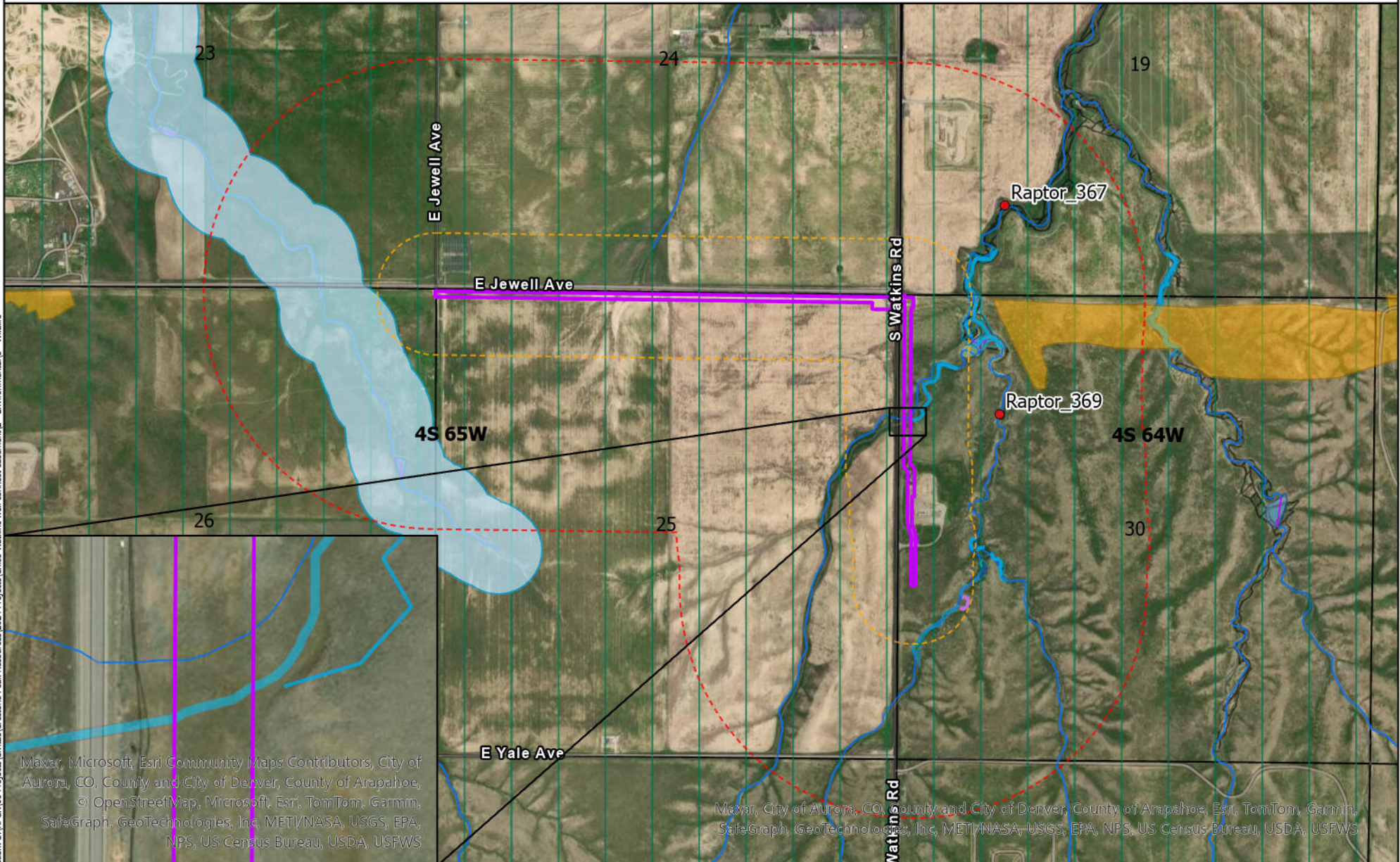
Russell Beam

APPENDIX B
Environmental Site Map

CRESTONE PEAK RESOURCES MIDSTREAM (CIVITAS RESOURCES)
CHICO-WATKINS LATERAL SITE PLAN AMENDMENT #12 (#1782698)
SEC 30, T4S, R64W, AND SEC 25, T4S, R65W 6th P.M.
ARAPAHOE COUNTY, COLORADO



Map Location: S:\RPG\100 Projects\Civitas\Crestone Peak Resources\2024 Projects\Chico Watkins well connect easement\2 - Environmental\5 - Wildlife



Maxar, Microsoft, Esri Community Maps Contributors, City of Aurora, CO, County and City of Denver, County of Arapahoe, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Maxar, City of Aurora, CO, County and City of Denver, County of Arapahoe, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

ENVIRONMENTAL
MAP

- | | | |
|------------------------------|--|---|
| Easement | Delineated River/Stream/Creek | NHD-Mapped Lake/Pond |
| 0.25-Mile Survey Radius | Delineated Lake/Pond | NWI-Mapped Riverine |
| 0.5-Mile Survey Radius | Delineated River/Stream/Creek Boundary | NWI-Mapped Freshwater Pond |
| Active Non-Eagle Raptor Nest | Delineated Feature Boundary (Other) | NWI-Mapped Freshwater Emergent Wetland |
| Burrowing Owl Habitat | Aquatic Native Species Conservation Waters HPH | NWI-Mapped Forested/Shrub Riparian Area |
| River/Stream/Creek | Pronghorn Winter Concentration Area HPH | FEMA 100-Year Floodplain |
| Delineated Wetland | NHD-Mapped Stream/River | |
| Delineated Ditch/Canal | NHD-Mapped Artificial Path | |

Projection: WGS 1984
Date: 03/20/2024
Drafted by: BRH
Revised: 03/27/2024

