# THOMPSON THRIFT WETLAND DELINEATION AND PROTECTED SPECIES REVIEW

**PREPARED FOR:**

**Thompson Thrift**

**July 2024**

**Olsson Project No. 024-00437**

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# APPENDICES

# 1. INTRODUCTION

This report documents the findings of a wetland delineation for the Thompson Thrift Project (the "Project"). The Project is located north of South Academy Boulevard and west of Venetucci Boulevard in Colorado Springs, Colorado. The Project entails the construction of amultifamily development consisting of 336 residential units, associated parking, utilities, and amenity spaces. The project will involve grading, paving, and construction of buildings and associated infrastructure.

The approximately 16-acre Project area is located in El Paso County, Colorado in Section 4, Township 15 South, Range 66 West, in the Colorado Springs, Colorado Quadrangle (**Figure 1, Appendix A**). The geometric center of the Project area is located at latitude 38.770359 degrees and longitude -104.786314 degrees. Thompson Thrift contracted Olsson, Inc. (Olsson) to identify and delineate wetlands, stream channels, and other waters within the Project area. This report provides a description of the Project area, methods used, investigation results, and a discussion of the results.

# 2. DESKTOP REVIEW

Olsson reviewed publicly available information to identify areas with the potential to support wetlands, streams, and/or other aquatic resources within the Project area. Data sources reviewed included aerial photography (ESRI 2024; Google Earth 2024), U.S. Geological Survey (USGS) topographic maps (USGS 2015), U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) database (USFWS 2024b), USGS National Hydrography Dataset (NHD) database (USGS 2023), and El Paso County Soil Survey data via the Soil Survey Geographic (SSURGO) database (SSURGO 2024). The desktop review identified areas that may have wetland indicators (e.g., mapped wetlands, areas with hydric soils, saturation visible on aerial imagery, etc.). The field investigation was not limited to or restricted to these areas identified by the desktop review. Additional points were taken for documentation of areas observed with potential wetland characteristics not previously identified.

## 2.1 USGS Topographic Maps

The Location Map (**Figure 1, Appendix A**) indicates the relief is relatively uneven with elevations ranging from 5,920 feet above mean sea level in the southeastern portion of the Project area to 5,840 feet above mean sea level along the west-northwestern boundary of the Project area. The USGS topographic layer does not depict any water features within the Project area.

## 2.2 Aerial Imagery Review

The Aerial Site Map (**Figure 2, Appendix A**) shows the Project area encompassing a broad grassed field which continues north, beyond the Project boundary. The western portion is

bounded by an unpaved two-track road adjacent to a stream channel. A densely populated residential area is located immediately west of the channel. Venetucci Boulevard bounds the eastern portion of the Project area. The area beyond Venetucci Boulevard is occupied by a number of commercial developments which continue to the southern extent of the site. A depression showing signs of saturation was identified in the north-central portion of the Project area.

## 2.3 NWI and NHD Databases

On the Natural Resources Map (**Figure 3, Appendix A**), the NHD depicts one unnamed intermittent stream channel meandering outside of the western boundary of the Project area. The water feature confluences with Clover Ditch, approximately 500 feet north of the of the site. The NWI indicates that no mapped wetland features occur within the boundaries of the Project area. One R4SBC Riverine habitat feature, and two emergent wetland habitats (PEM1B and PEM1C) associated with the unnamed water feature occur beyond the western boundary of Project area.

## 2.4 SSURGO Database

The Natural Resources Map (**Figure 3, Appendix A**) identified the following SSURGO soil map unit within the Project area:

- Schamber-Razor complex, 8 to 50 percent slopes, 1 percent hydric rating

The hydric percentage indicates what percentage of the soil map unit meets the criteria for hydric soils, which may indicate wetland conditions. The one percent hydric rating indicates that the soils within the Project area are not likely to support wetland characteristics.

# 3. FIELD INVESTIGATION METHODS

Olsson staff visited the Project area on April 24, 2024, to complete the wetland delineation field investigation. The wetland delineation followed methodology described in the *U.S. Army Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast* (USACE 2010). All conditions described represent conditions at the time of the field investigation. U.S. Army Corps of Engineers Wetland Determination Data Forms are included in Appendix B. Photographs were taken during the visit and are shown in Appendix C. Sample point locations, photo locations, and delineated water features are shown on Figure 4, Appendix A.

# 4. RESULTS

### Wetlands and Other Waters

The Project area features a broad, terraced, upland landscape that slopes lower in elevation to the west-northwest. A total of three areas that met the criteria of wetlands were delineated within the Project area (**Figure 4, Appendix A**). These areas are all located in a man-made sediment basin constructed when the site was previously graded. Two Palustrine Emergent Temporarily Flooded / Seasonally Flooded (PEMA / C) wetlands occur within the sediment basin which widens at its northwestern extent. The northwestern extent of the sediment basin is occupied by a Palustrine Unconsolidated Bottom / Artificially Flooded open water feature (PUBK.) These features are not represented in the NWI database and although they meet the criteria of wetlands, they are not natural features and are only present due to the construction of the sediment basin.

**Table 1. Delineated Wetlands and Other Waters.**

| Feature ID | Sample Point(s) | Cowardin Classification* | Photograph(s) | Figure | Size (Acres) |
|---|---|---|---|---|---|
| Wetland A | 1 and 2 | PEMA / C | 2, 3, 4, and 14 | 4 | 0.01 |
| Wetland B | 3 and 4 | PEMA / C | 1, 7, and 8 | 4 | 0.04 |
| Wetland C | 4 and 5 | PUBK | 1, 9, and 10 | 4 | 0.12 |
| **TOTAL (ac)** | | | | | **0.17** |

PEMA / C = Palustrine Emergent Temporarily Flooded / Seasonally Flooded; PUBK = Palustrine Unconsolidated Bottom Artificially Flooded ***(Cowardin et al. 1979)

# 5. THREATENED AND ENDANGERED SPECIES

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) (USFWS 2024a) species list was used to determine potential impacts to federally listed threatened and endangered species. Additionally, the Colorado Natural Heritage Program (CNHP) online Conservation Data Explorer (CODEX) (CNHP 2023) tool was reviewed to determine potential impacts to state listed threatened and endangered species.

A total of five federally listed and four state listed threatened or endangered species are listed as potentially occurring in, or being affected by projects in, El Paso County, Colorado (see **Appendix D**). Critical habitat has not been designated for the following listed species potentially occurring in El Paso County.

**Table 2. Federally and state listed Threatened and Endangered Species Potentially Present in El Paso County.**

| Common Name (Scientific) | Status | Habitat Requirements | Habitat in Project Area |
|---|---|---|---|
| **Birds** | | | |
| **Piping Plover (*Charadrius melodus*)** | Federally Threatened | Sandy upper beaches, especially where scattered grass tufts are present, and sparsely vegetated shores and islands of shallow lakes, ponds, rivers, and impoundments. | No, habitat is not present. |
| **Eastern Black Rail (*Laterallus jamaicensis ssp. jamaicensis*)** | Federally Threatened | Black Rails nest in marshes and wet meadows across North America, including riparian marshes, coastal prairies, saltmarshes, and impounded wetlands. All of its habitats have stable shallow water, usually just 1.2 inches deep at most. | No, habitat is not present. |
| **Burrowing Owl (*Athene cunicularia*)** | State Threatened | Nests are in abandoned burrows, such as those dug by prairie dogs, ground squirrels, foxes, woodchucks. | No, prairie dog colonies or other abandoned burrows were observed on the site. |
| **Fish** | | | |
| **Pallid Sturgeon (*Scaphirhynchus albus*)** | Federally Endangered | Large, turbid, free-flowing riverine habitat; it occurs in strong current over firm gravel or sandy substrate. Downstream Platte River system. | No, habitat is not present. |
| **Greenback Cutthroat Trout (*Oncorhynchus clarkii stomias*)** | Federally Threatened | Habitat for the greenback cutthroat trout consists of relatively steep, cold-water streams and rivers as well as high mountain lakes in the South Platte and Arkansas river basins. | No, habitat is not present. |
| **Arkansas Darter (*Etheostoma cragini*)** | State Threatened | Preferred habitat is spring-fed headwaters and creeks with cool, clear, shallow water, slow current, and herbaceous aquatic vegetation such as growths of watercress or other aquatic plants. | No, habitat is not present. |
| **Southern Redbelly Dace (*Phoxinus erythogaster*)** | State Endangered | Southern redbelly dace have a strong habitat preference for sluggish headwaters and upland creeks (usually spring-fed) with vegetation and woody debris. The water is generally clear, and the substrate is sand or gravel. | No, habitat is not present. |
| **Mammals** | | | |
| **Preble's Meadow Jumping Mouse (*Zapus hudsonius preblei*)** | State Threatened | During summer months, the most important wetland types occupied by Preble's meadow jumping mice include riparian areas and adjacent wet meadows. During the summer, they prefer dense shrub, grass and forb ground cover along creeks, rivers, and associated waterbodies. From early fall through the spring, they hibernate underground in burrows that are typically at the base of vegetation and have a northerly aspect. | No, habitat is not present. |
| **Plants** | | | |

| Common Name (Scientific) | Status | Habitat Requirements | Habitat in Project Area |
|---|---|---|---|
| **Ute Ladies'-Tresses Orchid (*Spiranthes diluvialis*)** | Federally Threatened | Moist to wet alluvial meadows, floodplains of perennial streams, and around springs and lakes below 7,800 feet in elevation. | No, habitat is not present. |

Habitat for federally and state listed species is not present in the Project area and the Project will not affect the flow quantity or timing of the Platte River; therefore, there would be no take of federally or state listed species.

An on-site investigation is recommended before Project activities commence if activities are scheduled between December 1 and July 31 (the typical nesting season for bald eagles in Colorado), and/or February 15 and July 31 (the typical nesting seasons for common raptors in Colorado), and/or April 1 through August 31 (the small bird nesting season) to confirm the presence of active nests or new nests within the vicinity of the Project area.

# 6. DISCUSSION

The Project area contains three water features, none of which were mapped NWI wetlands. The wetlands are located in a depressional feature which was constructed as a sediment basin that is surrounded by relatively steep hillslopes, dominated by upland vegetation. The two PEMA/C wetlands occur slightly upslope of the PUBK open water feature occurring within the sediment basin. Though hydric soils were present in both the upland and wetland soil pits, vegetation within the PEMA/C wetlands was primarily facultative and mixed with upland species, suggesting that wetland hydrology may not be persistent enough to sustain a hydrophytic plant community.

Historic aerial imagery indicates that the sediment basin is periodically inundated but also goes through periods where no water is present, which likely does not provide optimal conditions for vegetation growth. Beyond the western portion of the sediment pond, the elevation abruptly drops approximately 40 feet to a vegetated area containing an unpaved two-track road adjacent to the unnamed intermittent stream channel. The northwestern portion of the sediment basin contains a cobble riprap drainage swale which may function as a way to slow overflow from the pond and prevent additional sediment from entering the channel west of the Project area.

Although portions of the sediment basin had wetland characteristics, they are due to being in a man-made feature meant to trap water for short periods of time in order to allow sediment to settle out of the water. These are not natural features and according to 33 CFR § 328.3(b)(5), artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, **settling basins**, or rice growing **are not waters or the United States**. Additionally, the sediment basin was created in uplands,

and drains only uplands. The desktop review did not indicate any water features being present in the Project area.

This report has been prepared for the use of Thompson Thrift. It is intended for specific application to the proposed Project and has been produced in accordance with generally accepted practices. If any changes occur within the Project area, or regarding previously outlined methodologies or regulations, the information in this report cannot be considered valid unless it has been further reviewed and verified by Olsson.

# 6. REFERENCES

Colorado Natural Heritage Program (CNHP). 2024. Colorado Conservation Data Explorer (CODEX). Available at: https://codex.cnhp.colostate.edu/home.

Cowardin, L. M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service (USFWS) Report No. FWS/OBS/-79/31. Washington, D.C.

Environmental Science Research Institute (ESRI). 2024. Aerial Imagery Service: ESRI, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, U.S. Department of Agriculture (USDA), U.S. Geological Survey (USGS), Getmapping, Aerogrid, IGN, IGP, swisstop, and the GIS User Community.

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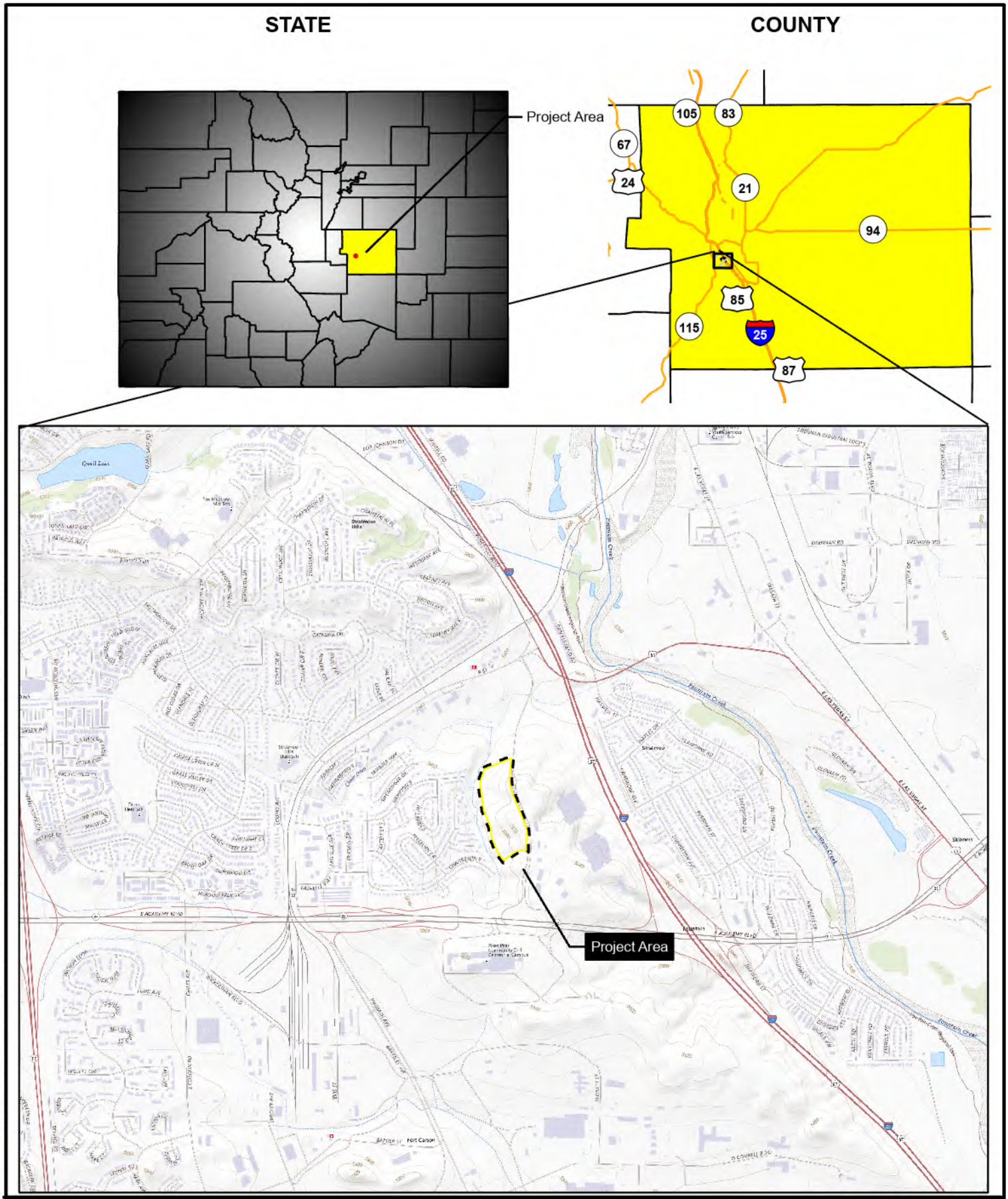
# APPENDIX A
Figures




**Thompson Thrift**
Wetland Delineation and Sensitive Species Report
024-00437
El Paso County, Colorado
**Location Map**
Figure 1

olsson

NAD 1983 HARN StatePlane Colorado North FIPS 0501 Feet

Basemap: ESRI World Imagery

C:\Users\jdimaria\OneDrive - Olsson\Desktop\Projects\Thompson Thrift\GIS\Figure_2.aprx PUBLISHED BY: jdimaria DATE: July 11, 2024


N 0 140 280 560 ft

1:6,000

olsson

Project Area

**Thompson Thrift**

Wetland Delineation and Protected Species Report

024-00437

El Paso County, Colorado

**Site Map**

Figure 2

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NAD 1983 2011 StatePlane Colorado North FIPS 0501 Ft US

Basemap: ESRI World Imagery


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N 0 105 210 420 ft

1:4,500

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**Thompson Thrift**
Wetland Delineation and
Protected Species Report
024-00437
El Paso County, Colorado
**Natural Resources Map**
Figure 3

NAD 1983 2011 StatePlane Colorado North FIPS 0501 Ft US

Basemap: ESRI World Imagery

Wetland C
PUBK
0.12 acre

Wetland B
PEMA/C
0.04 acre

Sediment Basin

Wetland A
PEMA/C
0.01 acre

SP-1
SP-2
SP-3
SP-4
SP-5

1 2 3 4 5 6 7 8 9 10 11

Venetucci Blvd
Walmart Hts
Chamberlin S
Hot Wash
Panda Express
Fast Food
Arby's
Fast Food
Freddy's
Custard
Fast Food
Sam's Club Gas Station



N

0 25 50 100 150 ft

1:1,500

Project Area

Photo Points

Sample Points

Sediment Basin

Wetlands

olsson

**Thompson Thrift**
Wetland Delineation and
Protected Species Report
024-00437
El Paso County, Colorado
**Wetland Map**
Figure 4

NAD 1983 2011 StatePlane Colorado North FIPS 0501 Ft US

Basemap: ESRI World Imagery

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# APPENDIX B

Wetland Determination Forms

# Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: **Thompson Thrift** City/County: **Colorado Springs/El Pas** Sampling Date: **4/24/2024**

Applicant/Owner: **Thompson Thrift** State: **CO** Sampling Point: **1**

Investigator(s): **Joe DiMaria, Nick DiMascio** Section, Township, Range: **S4, T15S, R66W**

Landform (hillslope, terrace, etc.): **Depression** Local relief (concave, convex, none): **Concave** Slope (%): **1-2**

Subregion (LRR): **E** Lat: **38.770897** Long: **-104.786255** Datum: NAD83

Soil Map Unit Name: **Schamber-Razor complex, 8 to 50 percent slopes** NWI classification: **NA**

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes | X | No | |
| Hydric Soil Present? | Yes | X | No | |
| Wetland Hydrology Present? | Yes | X | No | |

**Is the Sampled Area within a Wetland?** **Yes** X **No** ____

Remarks:

Sample point located in a Palustrine emergent temporarily floooded (PEMA) wetland within a depressional drainage surrounded by upland hills. In point for Wetland A.

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Sapling/Shrub Stratum** Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Panicum capillare* | 40 | X | FAC |
| 2. *Bromus inermis* | 15 | | UPL |
| 3. *Pascopyrum smithii* | 10 | | FACU |
| 4. *Cirsium arvense* | 10 | | FAC |
| 5. *Helianthus annuus* | 5 | | FACU |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 80 = Total Cover | | |
| **Woody Vine Stratum** (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| | = Total Cover | | |

% Bare Ground in Herb Stratum 20%

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | | x 1 = | |
| FACW species | | x 2 = | |
| FAC species | | x 3 = | |
| FACU species | | x 4 = | |
| UPL species | | x 5 = | |
| Column Totals: | 0 (A) | | (B) |

Prevalence Index = B/A = ____

**Hydrophytic Vegetation Indicators:**

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** **Yes** X **No** ____

Remarks:

Vegetation passed dominance test.
Photos 3 and 4

## SOIL

Sampling Point: 1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-12 | 10YR 2/1 | 95 | 10YR 6/4 | 5 | C | M/PL | Silty clay loam | |
| 12-22 | 10YR 5/2 | 60 | 10YR 6/6 | 40 | C | M | Silty clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)**

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- __ 2 cm Muck (A10) (LRR B)
- __ Red Parent Material (TF2)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type:

Depth (inches):

**Hydric Soil Present?** **Yes** X **No** __

Remarks:
Soils meet the F6 indicator.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Surface Soil Cracks (B6)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Salt Crust (B11)
- __ Aquatic Invertebrates (B13)
- __ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizopheres along Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Stunted or Stressed Plants (D1) **(LRR A)**
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- __ Drainage Pattersn (B10)
- __ Dry-Season Water Table (C2)
- __ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- __ Shallow Aquitard (D3)
- __ FAC-Neutral Test (D5)
- __ Raised Ant Mounds (D6) **(LRR A)**
- __ Frost-Heave Hummocks (D7)

**Field Observations:**

| | | | | | |
|---|---|---|---|---|---|
| Surface Water Present? | Yes __ | No X | Depth (inches) | |
| Water Table Present? | Yes __ | No X | Depth (inches) | |
| Saturation Present? (includes capillary fringe) | Yes __ | No X | Depth (inches) | |

**Wetland Hydrology Present?** **Yes** X **No** __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
One primary and one secondary indicator is present.

# Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: **Thompson Thrift** City/County: **Colorado Springs/El Pas** Sampling Date: **4/24/2024**

Applicant/Owner: **Thompson Thrift** State: **CO** Sampling Point: **2**

Investigator(s): **Joe DiMaria, Nick DiMascio** Section, Township, Range: **S4, T15S, R66W**

Landform (hillslope, terrace, etc.): **Hillslope** Local relief (concave, convex, none): **Convex** Slope (%): **2-3**

Subregion (LRR): **E** Lat: **38.770841** Long: **-104.786372** Datum: NAD83

Soil Map Unit Name: **Schamber-Razor complex, 8 to 50 percent slopes** NWI classification: **NA**

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area within a Wetland?** | **Yes** ____ **No** X |
| Hydric Soil Present? | Yes ____ | No X | | |
| Wetland Hydrology Present? | Yes ____ | No X | | |

Remarks:

Sample point is located on an upland hillslope above an emergent wetland. The site lacked hydrophytic vegetation, hydric soils, and wetland hydrology and was determined to be upland. Out point for SP-1.

## VEGETATION - Use scientific names of plants.

| | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| Tree Stratum (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| Sapling/Shrub Stratum Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| Herb Stratum (Plot size: 5' ) | | | |
| 1. *Agropyron cristatum* | 40 | X | UPL |
| 2. *Medicago sativa* | 20 | X | UPL |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 60 = Total Cover | | |
| Woody Vine Stratum (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| | = Total Cover | | |

% Bare Ground in Herb Stratum 40%

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | | x 1 = | |
| FACW species | | x 2 = | |
| FAC species | | x 3 = | |
| FACU species | | x 4 = | |
| UPL species | | x 5 = | |
| Column Totals: | 0 (A) | | (B) |

Prevalence Index = B/A = ____

**Hydrophytic Vegetation Indicators:**

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** **Yes** ____ **No** X

Remarks:

Site is dominated by upland vegetation.
Photo 5

## SOIL

Sampling Point: 2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Redox Features Type[1] | Redox Features Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-6 | 10YR 3/3 | 98 | 10YR 5/4 | 2 | C | M | Sandy clay loan | |
| 6-22 | 10YR 3/3 | 100 | | | | | Sandy clay loan | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)**

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- __ 2 cm Muck (A10) (LRR B)
- __ Red Parent Material (TF2)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type:

Depth (inches):

**Hydric Soil Present?** **Yes** ____ **No** X

Remarks:

Redox features were encountered but the soil matrix chroma was too high to meet a hydric indicator.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Surface Soil Cracks (B6)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Salt Crust (B11)
- __ Aquatic Invertebrates (B13)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizopheres along Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Stunted or Stressed Plants (D1) **(LRR A)**
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- __ Drainage Pattersn (B10)
- __ Dry-Season Water Table (C2)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Geomorphic Position (D2)
- __ Shallow Aquitard (D3)
- __ FAC-Neutral Test (D5)
- __ Raised Ant Mounds (D6) **(LRR A)**
- __ Frost-Heave Hummocks (D7)

**Field Observations:**

| | | | | | |
|---|---|---|---|---|---|
| Surface Water Present? | Yes ____ | No X | Depth (inches) | | |
| Water Table Present? | Yes ____ | No X | Depth (inches) | | |
| Saturation Present? (includes capillary fringe) | Yes ____ | No X | Depth (inches) | | |

**Wetland Hydrology Present?** **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

The site lacked wetland hydrology.

# Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: **Thompson Thrift** City/County: **Colorado Springs/El Pas** Sampling Date: **4/24/2024**

Applicant/Owner: **Thompson Thrift** State: **CO** Sampling Point: **3**

Investigator(s): **Joe DiMaria, Nick DiMascio** Section, Township, Range: **S4, T15S, R66W**

Landform (hillslope, terrace, etc.): **Depression** Local relief (concave, convex, none): **Concave** Slope (%): **0-1**

Subregion (LRR): **E** Lat: **38.77089182** Long: **-104.786661** Datum: NAD83

Soil Map Unit Name: **Schamber-Razor complex, 8 to 50 percent slopes** NWI classification: **NA**

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area within a Wetland?** | **Yes** ____ **No** X |
| Hydric Soil Present? | Yes ____ | No X | | |
| Wetland Hydrology Present? | Yes ____ | No X | | |

Remarks:
Sample point is located in a PEMA wetland within a depression above a dry sediment pond. In point for Wetland B.

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Sapling/Shrub Stratum** Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Panicum capillare* | 35 | X | FAC |
| 2. *Cirsium arvense* | 25 | X | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 60 = Total Cover | | |
| **Woody Vine Stratum** (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| | = Total Cover | | |

% Bare Ground in Herb Stratum 40%

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | | x 1 = | |
| FACW species | | x 2 = | |
| FAC species | | x 3 = | |
| FACU species | | x 4 = | |
| UPL species | | x 5 = | |
| Column Totals: | 0 (A) | | (B) |

Prevalence Index = B/A = ____

**Hydrophytic Vegetation Indicators:**

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** **Yes** X **No** ____

Remarks:
Site is dominated by faculative plant species.
Photo 6

## SOIL

Sampling Point: 3

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-5 | 10YR 3/2 | 70 | 10YR 6/8 | 30 | C | M | Sandy clay loam | Black inclusions |
| 6-22 | 10YR 4/2 | 70 | 10YR 6/6 | 30 | C | M | Sandy clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 2 cm Muck (A10) (LRR B)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** X **No** ___

Remarks:

High percentage of redox features throughout the soil profile. Soil meets the F6 indicator.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizopheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) **(LRR A)**
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- X Drainage Pattersn (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) **(LRR A)**
- ___ Frost-Heave Hummocks (D7)

**Field Observations:**

| | | | | | |
|---|---|---|---|---|---|
| Surface Water Present? | Yes ___ | No X | Depth (inches) | ___ | |
| Water Table Present? | Yes ___ | No X | Depth (inches) | ___ | |
| Saturation Present? (includes capillary fringe) | Yes ___ | No X | Depth (inches) | ___ | **Wetland Hydrology Present?** Yes X No ___ |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

One primary and two secondary indicators encountered.

# Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: **Thompson Thrift** City/County: **Colorado Springs/El Pas** Sampling Date: **4/24/2024**

Applicant/Owner: **Thompson Thrift** State: **CO** Sampling Point: **4**

Investigator(s): **Joe DiMaria, Nick DiMascio** Section, Township, Range: **S4, T15S, R66W**

Landform (hillslope, terrace, etc.): **Depression** Local relief (concave, convex, none): **Convex** Slope (%): **0-1**

Subregion (LRR): **E** Lat: **38.770831** Long: **-104.786639** Datum: NAD83

Soil Map Unit Name: **Schamber-Razor complex, 8 to 50 percent slopes** NWI classification: **NA**

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area within a Wetland?** | **Yes** ____ **No** X |
| Hydric Soil Present? | Yes X | No ____ | | |
| Wetland Hydrology Present? | Yes ____ | No X | | |

Remarks:

Sample point located on an upland terrace above an PEMA wetland. The sample point is within a broad depression. Although the site contained hydric soils, hydrophytic vegetation and wetland hydrology were not encountered and was determined to be upland. SP-4 is the out point for SP-3 and SP-5.

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Sapling/Shrub Stratum** Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Aristida purpurea* | 40 | X | UPL |
| 2. *Medicago sativa* | 30 | X | UPL |
| 3. *Helianthus annuus* | 5 | | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 75 = Total Cover | | |
| **Woody Vine Stratum** (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| | = Total Cover | | |

% Bare Ground in Herb Stratum 25%

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | | x 1 = | |
| FACW species | | x 2 = | |
| FAC species | | x 3 = | |
| FACU species | | x 4 = | |
| UPL species | | x 5 = | |
| Column Totals: | 0 (A) | | (B) |

Prevalence Index = B/A = ____

**Hydrophytic Vegetation Indicators:**

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** **Yes** ____ **No** X

Remarks:

Site is dominated by upland vegetation.
Photo 7

## SOIL

Sampling Point: 4

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-6 | 10YR 4/3 | 90 | 10YR 6/6 | 10 | C | M | Sandy clay loan | |
| 6-22 | 10YR 3/3 | 90 | 10YR 6/6 | 10 | C | M | Sandy clay loan | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- X Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 2 cm Muck (A10) (LRR B)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: ___

Depth (inches): ___

**Hydric Soil Present?** **Yes** X **No** ___

Remarks:
High percentage of redox features were encountered throughout the soil profile and met the F8 indicator.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizopheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) **(LRR A)**
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Drainage Pattersn (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) **(LRR A)**
- ___ Frost-Heave Hummocks (D7)

**Field Observations:**

| | | | | | |
|---|---|---|---|---|---|
| Surface Water Present? | Yes ___ | No X | Depth (inches) | ___ | |
| Water Table Present? | Yes ___ | No X | Depth (inches) | ___ | |
| Saturation Present? (includes capillary fringe) | Yes ___ | No X | Depth (inches) | ___ | **Wetland Hydrology Present?** **Yes** ___ **No** X |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Wetland hydrology was not encountered.

# Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: **Thompson Thrift** City/County: **Colorado Springs/El Pas** Sampling Date: **4/24/2024**

Applicant/Owner: **Thompson Thrift** State: **CO** Sampling Point: **5**

Investigator(s): **Joe DiMaria, Nick DiMascio** Section, Township, Range: **S4, T15S, R66W**

Landform (hillslope, terrace, etc.): **Dry sediment pond** Local relief (concave, convex, none): **Concave** Slope (%): **0-1**

Subregion (LRR): **E** Lat: **38.770978** Long: **-104.786743** Datum: NAD83

Soil Map Unit Name: **Schamber-Razor complex, 8 to 50 percent slopes** NWI classification: **NA**

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation X, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes | X | No | |
| Hydric Soil Present? | Yes | X | No | |
| Wetland Hydrology Present? | Yes | X | No | |

**Is the Sampled Area within a Wetland?** **Yes** X **No** ____

Remarks:

Sample point is located within a dry sediment pond. The pond is an artificially flooded feature which likely inhibits vegetation growth. Due to the high degree of soil redox features and wetland hydrology indicators, the site was considered to be a wetland.

## VEGETATION - Use scientific names of plants.

| | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| Tree Stratum (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| Sapling/Shrub Stratum Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | = Total Cover | | |
| Herb Stratum (Plot size: 5' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | = Total Cover | | |
| Woody Vine Stratum (Plot size: 30' ) | | | |
| 1. | | | |
| 2. | | | |
| | = Total Cover | | |

% Bare Ground in Herb Stratum ____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: ____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | | x 1 = | |
| FACW species | | x 2 = | |
| FAC species | | x 3 = | |
| FACU species | | x 4 = | |
| UPL species | | x 5 = | |
| Column Totals: | 0 (A) | | (B) |

Prevalence Index = B/A = ____

**Hydrophytic Vegetation Indicators:**

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- X Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** **Yes** X **No** ____

Remarks:

The pond is an artificially flooded feature which likely inhibits vegetation growth. Due to the high degree of soil redox features and wetland hydrology indicators, the site was considered to be a wetland.
Photos 8 and 9

## SOIL

Sampling Point: **5**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-22 | 10YR 2/1 | 80 | 10YR 5/6 | 20 | C | M | Silty clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)**

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- __ 2 cm Muck (A10) (LRR B)
- __ Red Parent Material (TF2)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type:

Depth (inches):

**Hydric Soil Present?** **Yes** X **No** __

Remarks:

Soil was moist throughout the profile and met indicator F6.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- X Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- X Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- X Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- X Salt Crust (B11)
- __ Aquatic Invertebrates (B13)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizopheres along Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Stunted or Stressed Plants (D1) **(LRR A)**
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- __ Drainage Pattersn (B10)
- __ Dry-Season Water Table (C2)
- __ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- __ Shallow Aquitard (D3)
- __ FAC-Neutral Test (D5)
- __ Raised Ant Mounds (D6) **(LRR A)**
- __ Frost-Heave Hummocks (D7)

**Field Observations:**

| | | | | | |
|---|---|---|---|---|---|
| Surface Water Present? | Yes __ | No X | Depth (inches) | |
| Water Table Present? | Yes __ | No X | Depth (inches) | |
| Saturation Present? (includes capillary fringe) | Yes __ | No X | Depth (inches) | |

**Wetland Hydrology Present?** **Yes** X **No** __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

11/2015, 10/2018, 10/2022, 5/2023, 10/2023

Remarks:

Five primary and one secondary indicator is met.

# APPENDIX C
Photo Log

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 1 | Direction Photo Taken: Northwest | Figure No: 4 |
|---|---|---|

Description: Overview of Wetlands B and C. Wetland B is a Palustrine Emergent Temporarily/Seasonally Flooded (PEMA/C) wetland and Wetland C is a Palustrine Unconsolidated Bottom Artificially Flooded (PUBK) open water feature.

| Photo No: 2 | Direction Photo Taken: North | Figure No: 4 |
|---|---|---|

Description: Overview of Wetland A, a PEMA/C wetland located in a narrow depression between upland hillslopes.

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 3 | Direction Photo Taken: South | Figure No: 4 |
|---|---|---|

Description: Sample point 1, the in point for PEMA/C Wetland A, located in a narrow depression.

| Photo No: 4 | Direction Photo Taken: West | Figure No: 4 |
|---|---|---|

Description: Overview of Wetland A with sample point 1 in the foreground.

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 5 | Direction Photo Taken: East | Figure No: 4 |
|---|---|---|

Description: Sample point 2 located on an upland hillslope, out point for Wetland A.

| Photo No: 6 | Direction Photo Taken: East | Figure No: 4 |
|---|---|---|

Description: Sample point 4, in point for PEMA/C Wetland B, located adjacent to a sediment basin associated with Wetland C.

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 7 | Direction Photo Taken: East | Figure No: 4 |
|---|---|---|

Description: Sample point 4 located on an upland hillslope above Wetland B, this is the out point for sample points 4 and 5.

| Photo No: 8 | Direction Photo Taken: East | Figure No: 4 |
|---|---|---|

Description: Sample point 5, in point for PUBK Wetland C, located in a dry sediment basin. Aerial imagery indicates that the basin is periodically inundated.

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 9 | Direction Photo Taken: Southeast | Figure No: 4 |
|---|---|---|

Description: Overview of Wetland C, located in a dry sediment basin. A cobble riprap drainage swale in the foreground.

| Photo No: 10 | Direction Photo Taken: Northwest | Figure No: 4 |
|---|---|---|

Description: A cobble riprap line drainage swale located at the northwestern portion of the sediment basin.

# PHOTO LOG

| Project Name: | Site Location: | Project No: |
|---|---|---|
| Thompson Thrift | El Paso, Colorado | 024-00437 |

| Photo No: 11 | Direction Photo Taken: Northwest | Figure No: 4 |
|---|---|---|

Description: The cobble riprap lined swale continues downslope of the sediment basin.

# APPENDIX D

IPaC and CODEX Reports

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
Colorado Ecological Services Field Office
Denver Federal Center
P.O. Box 25486
Denver, CO 80225-0486
Phone: (303) 236-4773 Fax: (303) 236-4005

In Reply Refer To: 05/13/2024 20:25:20 UTC
Project Code: 2024-0089787
Project Name: Thompson Thrift

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

# OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Colorado Ecological Services Field Office**
Denver Federal Center
P.O. Box 25486
Denver, CO 80225-0486
(303) 236-4773

# PROJECT SUMMARY

Project Code: 2024-0089787
Project Name: Thompson Thrift
Project Type: Commercial Development
Project Description: Development of a commercial property.
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.77036635,-104.78635048078897,14z


Counties: El Paso County, Colorado

# ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

| NAME | STATUS |
|---|---|
| Tricolored Bat *Perimyotis subflavus*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/10515 | Proposed Endangered |

## BIRDS

| NAME | STATUS |
|---|---|
| Eastern Black Rail *Laterallus jamaicensis ssp. jamaicensis*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/10477 | Threatened |
| Piping Plover *Charadrius melodus*<br>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.<br>There is **final** critical habitat for this species. Your location does not overlap the critical habitat.<br>This species only needs to be considered under the following conditions:<br>▪ Project includes water-related activities and/or use in the N. Platte, S. Platte, and Laramie River Basins which may affect listed species in Nebraska.<br>Species profile: https://ecos.fws.gov/ecp/species/6039 | Threatened |

## FISHES

| NAME | STATUS |
|---|---|
| Greenback Cutthroat Trout *Oncorhynchus clarkii stomias*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/2775 | Threatened |
| Pallid Sturgeon *Scaphirhynchus albus*<br>No critical habitat has been designated for this species.<br>This species only needs to be considered under the following conditions:<br>▪ Project includes water-related activities and/or use in the N. Platte, S. Platte, and Laramie River Basins which may affect listed species in Nebraska.<br>Species profile: https://ecos.fws.gov/ecp/species/7162 | Endangered |

## INSECTS

| NAME | STATUS |
|---|---|
| Monarch Butterfly *Danaus plexippus*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/9743 | Candidate |

## FLOWERING PLANTS

| NAME | STATUS |
|---|---|
| Ute Ladies'-tresses *Spiranthes diluvialis*<br>No critical habitat has been designated for this species. | Threatened |

NAME STATUS

Species profile: https://ecos.fws.gov/ecp/species/2159

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# IPAC USER CONTACT INFORMATION

Agency: Olsson
Name: joe DiMaria
Address: 1880 Fall River Drive
City: Loveland
State: CO
Zip: 80538
Email jdimaria@olsson.com
Phone: 5106046407

CODEX

Colorado's Conservation Data Explorer

# Project Review Report

## Project Description

Development of a commercial property.

## Project Information

Report Generation Date: 5/13/2024 02:29:24 PM

Project Title: Thompson Thrift

User Project Number(s):

System Generated ID: CODEX-3910

Project Type: Development/Redevelopment, Commercial

Project Size: 19.20 (acres)

Latitude/Longitude: 38.770381 / -104.786360

County(s): EL PASO

Watershed(s) HUC 8: Fountain

Township/Range and/or Section(s): 015S066W - 04 - 6P

## Contact Information

Organization: olsson

Contact Name: Joe DiMaria

Contact Phone: 5106046407

Contact Email: jdimaria@olsson.com

Contact Address: 1880 Fall River Drive, Loveland, CO 80538

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 animal and plant 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.

# 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:** cnhp.colostate.edu

## 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 https://cpw.state.co.us/conservation/Pages/CON-Energy-Land.aspx

**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

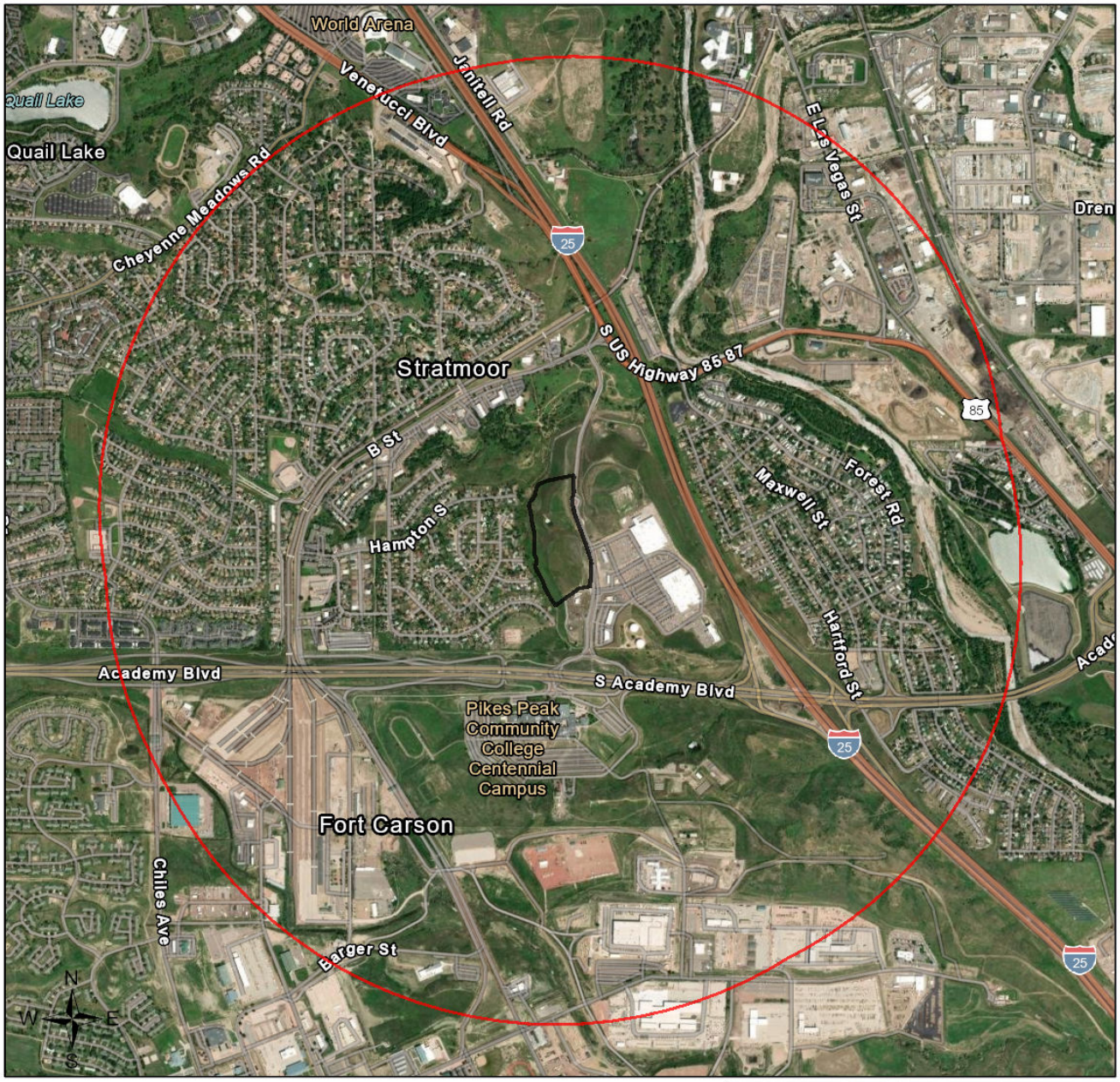
### Southwest Region

**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

# Thompson Thrift

## Aerial Image with Locator Map



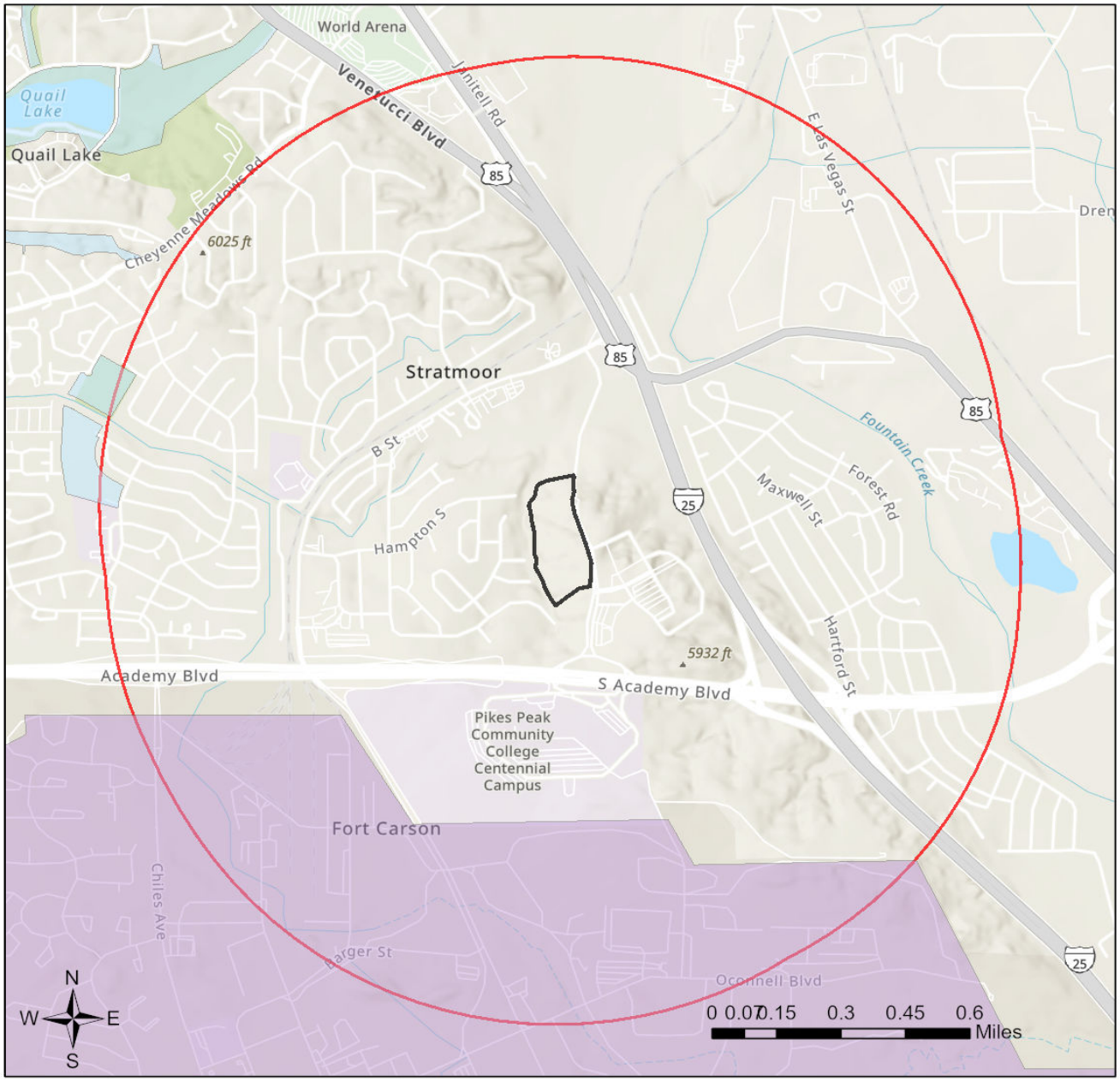

0 0.07.15 0.3 0.45 0.6
Miles


Buffered Search Area
Project Boundary

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS
Esri, USGS
Maxar

# Thompson Thrift

## Topographic Map with Land Management Status




- Buffered Search Area
- Project Boundary
- Misc Federal (BOR, DOD, Misc)
- BLM
- NPS
- USFS
- USFWS
- Tribal
- State
- Local
- NGO/Land Trust
- Private Conservation
- Private

Esri, NASA, NGA, USGS, FEMA
Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

# Thompson Thrift

## Web Map As Submitted By User


Esri, NASA, NGA, USGS, FEMA

## Regulatory Species

### Table 1. Documented Occurrences Within 1 Miles Of Project Area

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Birds | Haliaeetus leucocephalus | Bald Eagle | CNHP EO | G5 | S3B,S3N | BC | 2004-12-29 | | SC | BGEPA/BLM/SWAP Tier 2/USFS | 11304 | CNHP 20221028 |
| Fish | Oncorhynchus clarkii | Cutthroat Trout | CPW HUC12 Presence | G5 | S4 | | | PS | | | | CPW 20221213 |

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

| Major Group | Scientific Name | Common Name | Data Type | Global Rarity | State Rarity | ESA Status | CO Status | Other Status | Data Source |
|---|---|---|---|---|---|---|---|---|---|
| Birds | Aquila chrysaetos | Golden Eagle | CPW Breeding Range | G5 | S3S4B,S4N | | | BGEPA/SWAP Tier 1 | CPW 20221213 |
| Mammals | Zapus hudsonius preblei | Meadow Jumping Mouse Subsp | CPW Overall Range | G5T2 | S1 | LT | ST | SWAP Tier 1 | CPW 20221213 |

### 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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fish | Etheostoma cragini | Arkansas Darter | CPW HUC12 Presence | G3G4 | S2 | | | | ST | BLM/SWAP Tier 1 | | CPW 20221213 |
| Fish | Phoxinus erythrogaster | Southern Redbelly Dace | CPW HUC12 Presence | G5 | S1 | | | | SE | SWAP Tier 1/USFS | | CPW 20221213 |
| Fish | Platygobio gracilis | Flathead Chub | CPW HUC12 | G5 | S3 | | | | SC | SWAP Tier 1/USFS | | 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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Presence | | | | | | | | | 221213 |
| Mammals | Odocoileus hemionus | Mule Deer | CPW Concentration Area | G5 | S4 | | | | | | | CPW 20221213 |
| Mammals | Odocoileus hemionus | Mule Deer | CPW Resident Population Area | G5 | S4 | | | | | | | CPW 20221213 |
| Mammals | Puma concolor | Mountain Lion | CPW Human Conflict Area | G5 | S4 | | | | | | | CPW 20221213 |
| Mammals | Ursus americanus | Black Bear | CPW Human Conflict Area | G5 | S5 | | | | | | | CPW 20221213 |
| Mammals | Ursus americanus | Black Bear | CPW Summer Concentration Area | G5 | S5 | | | | | | | CPW 20221213 |

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

| Major Group | Scientific Name | Common Name | Data Type | Global Rarity | State Rarity | ESA Status | CO Status | Other Status | Data Source |
|---|---|---|---|---|---|---|---|---|---|
| Birds | Ammodramus savannarum | Grasshopper Sparrow | CPW Breeding Range | G5 | S3S4B | | | SWAP Tier 2/USFS | CPW 20221213 |
| Birds | Athene cunicularia | Burrowing Owl | CPW Breeding Range | G4 | S4B | | ST | BLM/SWAP Tier 1/USFS | CPW 20221213 |
| Birds | Branta canadensis | Canada Goose | CPW Foraging Area | G5 | S5 | | | | CPW 20221213 |
| Birds | Branta canadensis | Canada Goose | CPW Winter Range | G5 | S5 | | | | CPW 20221213 |
| Birds | Buteo swainsoni | Swainson's Hawk | CPW Breeding Range | G5 | S5B | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Calamospiza melanocorys | Lark Bunting | CPW Breeding Range | G5 | S4 | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Catharus fuscescens | Veery | CPW Breeding Range | G5 | S3B | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Charadrius montanus | Mountain Plover | CPW Breeding Range | G3 | S2B | | SC | BLM/SWAP Tier 1/USFS | CPW 20221213 |
| Birds | Circus hudsonius | Northern Harrier | CPW Breeding Range | G5 | S3B | | | SWAP Tier 2/USFS | CPW 20221213 |
| Birds | Falco mexicanus | Prairie Falcon | CPW Breeding Range | G5 | S4B,S4N | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Melanerpes lewis | Lewis's Woodpecker | CPW Breeding Range | G4 | S4 | | | SWAP Tier 2/USFS | CPW 20221213 |
| Birds | Passerina amoena | Lazuli Bunting | CPW Breeding Range | G5 | S5B | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Peucaea cassinii | Cassin's Sparrow | CPW Breeding Range | G5 | S4B | | | SWAP Tier 2/USFS | CPW 20221213 |
| Birds | Selasphorus rufus | Rufous Hummingbird | CPW Migration Range | G4 | SNA | | | SWAP Tier 2 | CPW 20221213 |
| Birds | Spizella breweri | Brewer's Sparrow | CPW Breeding Range | G5 | S4B | | | BLM/SWAP Tier | CPW 20221213 |

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

| Major Group | Scientific Name | Common Name | Data Type | Global Rarity | State Rarity | ESA Status | CO Status | Other Status | Data Source |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 2/USFS | |
| Birds | Vermivora virginiae | Virginia's Warbler | CPW Breeding Range | G5 | S5 | | | SWAP Tier 2 | CPW 20221213 |
| Insects | Acronicta albarufa | Barrens Daggermoth | Range Map - present | G3G4 | SH | | | | CNHP 20210615 |
| Insects | Acronicta exempta | A Dagger Moth | Range Map - present | GNR | S3 | | | | CNHP 20210615 |
| Insects | Argia alberta | Paiute Dancer | Range Map - within range | G4 | S4 | | | SWAP Tier 2 | CNHP 20210615 |
| Insects | Atrytonopsis hianna | Dusted Skipper | CNHP General EO | G4G5 | S2 | | | | CNHP 20221028 |
| Insects | Atrytonopsis hianna | Dusted Skipper | Range Map - within range | G4G5 | S2 | | | | CNHP 20210615 |
| Insects | Bombus (Cullumanobombus) fraternus (Bombus fraternus) | Southern Plains Bumble Bee | Range Map - within range | G2G4 | S2S3 | | | SWAP Tier 2 | CNHP 20210615 |
| Insects | Bombus (Cullumanobombus) morrisoni (Bombus morrisoni) | Morrison's Bumble Bee | Range Map - within range | G3 | S2S4 | | | SWAP Tier 2 | CNHP 20210615 |
| Insects | Bombus (Thoracobombus) pensylvanicus (Bombus 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 |
| Insects | Bombus occidentalis | Western Bumble Bee | Range Map - within range | G3 | S3S4 | | | SWAP Tier 2 | CNHP 20210615 |
| Insects | Bombus variabilis | Variable Cuckoo Bumble Bee | Range Map - within range | G1G2 | SH | | | | CNHP 20210615 |
| Insects | 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 | Euphilotes rita coloradensis | Colorado Blue | Range Map - within range | G3G4T3 | S2 | | | SWAP Tier 2 | CNHP 20210615 |
| Insects | Heliothis australis | Southern Gem Moth | Range Map - present | GNR | S1 | | | | CNHP 20210615 |
| Insects | Melemaea magdalena | A Geometrid Moth | Range Map - present | GU | S3 | | | | CNHP 20210615 |
| Insects | Paratrytone snowi | Snow's Skipper | Range Map - within range | G5 | S3 | | | | CNHP 20210615 |
| Insects | Plathemis subornata | Desert Whitetail | Range Map - present | G4 | S3 | | | | CNHP 20210615 |
| Insects | Polites origenes | Cross-line Skipper | Range Map - within range | G5? | S3 | | | | CNHP 20210615 |
| Insects | Somatochlora ensigera | Plains Emerald | CNHP General EO | G4 | SH | | | SWAP Tier 2 | CNHP 20221028 |
| Insects | Stinga morrisoni | Morrison's Skipper | Range Map - within range | G4G5 | S3S4 | | | | CNHP 20210615 |
| Insects | Sympetrum costiferum | Saffron-winged Meadowhawk | Range Map - present | G5 | S3 | | | | CNHP 20210615 |
| Mammals | Conepatus leuconotus | Common Hog-nosed Skunk | Range Map - within range | G4 | S1 | | | SWAP Tier 2/USFS | CNHP 20210615 |
| Mammals | Corynorhinus townsendii | Townsend's Big-eared Bat | CPW Overall Range | G4 | S2 | | | BLM/USFS | CPW 20221213 |
| Mammals | Cynomys ludovicianus | Black-tailed Prairie Dog | CPW Overall Range | G4 | S3 | | SC | BLM/SWAP Tier 2/USFS | CPW 20221213 |
| Mammals | Cynomys ludovicianus | Black-tailed Prairie Dog | CPW Potential Occurrence | G4 | S3 | | SC | BLM/SWAP Tier 2/USFS | CPW 20221213 |

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

| Major Group | Scientific Name | Common Name | Data Type | Global Rarity | State Rarity | ESA Status | CO Status | Other Status | Data Source |
|---|---|---|---|---|---|---|---|---|---|
| Mammals | Eptesicus fuscus | Big Brown Bat | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Mammals | Lasionycteris noctivagans | Silver-haired Bat | CPW Overall Range | G3G4 | S3S4 | | | | CPW 20221213 |
| Mammals | Lasiurus borealis | Eastern Red Bat | CPW Overall Range | G3G4 | S2S3B | | | | CPW 20221213 |
| Mammals | Lasiurus cinereus | Hoary Bat | CPW Overall Range | G3G4 | S3S4B | | | SWAP Tier 2/USFS | CPW 20221213 |
| Mammals | Lepus townsendii | White-tailed Jackrabbit | CPW Overall Range | G5 | S4 | | | SWAP Tier 2 | CPW 20221213 |
| Mammals | Myotis ciliolabrum | Western Small-footed Myotis | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Myotis evotis | Long-eared Myotis | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Myotis lucifugus | Little Brown Myotis | CPW Overall Range | G3G4 | S4 | | | SWAP Tier 1 | CPW 20221213 |
| Mammals | Myotis volans | Long-legged Myotis | CPW Overall Range | G4G5 | S5 | | | | CPW 20221213 |
| Mammals | Neotamias quadrivittatus | Colorado Chipmunk | Range Map - within range | G5 | S5 | | | | CNHP 20210615 |
| Mammals | Odocoileus hemionus | Mule Deer | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Odocoileus hemionus | Mule Deer | CPW Summer Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Odocoileus hemionus | Mule Deer | CPW Winter Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Odocoileus virginianus | White-tailed Deer | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Mammals | Perognathus fasciatus | Olive-backed Pocket Mouse | CPW Overall Range | G5 | S3 | | | SWAP Tier 1 | CPW 20221213 |
| Mammals | Perognathus fasciatus | Olive-backed Pocket Mouse | Range Map - within range | G5 | S3 | | | SWAP Tier 1 | CNHP 20210615 |
| Mammals | Puma concolor | Mountain Lion | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Mammals | Sorex nanus | Dwarf Shrew | CPW Overall Range | G4 | S2 | | | SWAP Tier 2 | CPW 20221213 |
| Mammals | Thomomys bottae | Botta's Pocket Gopher | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Mammals | Ursus americanus | Black Bear | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Aspidoscelis sexlineata | Six-lined Racerunner | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Chrysemys picta | Painted Turtle | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Coluber constrictor | Racer | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Crotalus oreganus | Western Rattlesnake | CPW Overall Range | G5 | SNR | | | | CPW 20221213 |
| Reptiles | Crotalus viridis | Western Rattlesnake | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Heterodon nasicus | Plains Hognose Snake | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Reptiles | Holbrookia maculata | Lesser Earless Lizard | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Lampropeltis gentilis | Central Plains Milk Snake | CPW Overall Range | G5 | S5 | | | SWAP Tier 2 | CPW 20221213 |
| Reptiles | Liochlorophis vernalis | Smooth Green Snake | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |
| Reptiles | Masticophis flagellum | Coachwhip | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Phrynosoma hernandesi | Hernandez's Short-horned Lizard | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Pituophis catenifer sayi | Bullsnake | CPW Overall Range | G5T5 | S5 | | | | CPW 20221213 |
| Reptiles | Plestiodon multivirgatus | Many-lined Skink | CPW Overall Range | G5 | S4 | | | | CPW 20221213 |

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

| Major Group | Scientific Name | Common Name | Data Type | Global Rarity | State Rarity | ESA Status | CO Status | Other Status | Data Source |
|---|---|---|---|---|---|---|---|---|---|
| Reptiles | Sceloporus consobrinus | Fence/prairie/plateau Lizard | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Sceloporus tristichus | Southern Plateau Lizard | CPW Overall Range | G5 | S3 | | | | CPW 20221213 |
| Reptiles | Terrapene ornata ornata | Ornate Box Turtle | CPW Overall Range | G5T5 | S5 | | | | CPW 20221213 |
| Reptiles | Thamnophis elegans | Western Terrestrial Garter Snake | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |
| Reptiles | Thamnophis radix | Plains Garter Snake | CPW Overall Range | G5 | S5 | | | | CPW 20221213 |

## Special Areas and Land Status

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

| Name | Data Type | CNHP Biodiversity Rank | CNHP Edit Date | CNHP Identifier | Data Source |
|---|---|---|---|---|---|
| Aquatic Native Species Conservation Waters | SB181 High Priority Habitat | | | | CPW 20220528 |
| Fountain Creek | CNHP PCA | B5: General Biodiversity Interest | 2004-10-04 | 82 | CNHP 20221028 |
| Widefield Fountain | CNHP PCA | B5: General Biodiversity Interest | 2001-05-25 | 768 | CNHP 20221028 |

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

| Name | Owner | Manager | Management Description | Public Access* | Protection Mechanism | Easement Holder | Data Source |
|---|---|---|---|---|---|---|---|
| | PRIVATE | PRIVATE | Private Land | No | NA | | COMaP 20230223 |

*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**

No results were found for this project area.

# Project Report Appendix

**Please visit the** CNHP website **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).

**Managed Areas Name** – Name of the managed area.

**Manager** – The general land Manager.

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

**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.

**Critical Habitat Publication Date** - Federal Register publication date.

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

**Data Type –**

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

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

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

**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).

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

**Special Areas and Land Status** – CNHP Potential Conservation Areas

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

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

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

**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 HUC 10 and HUC 12 for aquatics.

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

**State Natural Area** - 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 Endangered Species Act:

(PCA), State Designated Natural Areas, Important Bird Areas, and managed lands from the Colorado Ownership, Management and Protection database (COMaP), SB181 High Priority Habitat

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

**State Rarity** - The rarity rank 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).

**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).

**Water and Wetlands** – Wetland types from the National Wetland Inventory database.

**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.

**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 https://www.fws.gov/wetlands/data/wetland-codes.html

**System** – A complex of wetlands and deepwater habitats that share the

Endangered (E), Threatened (T), or Federal Candidate (C) with qualifiers for Partial Status (PS) and experimental populations (XN).

**Global Rarity** – The rarity rank 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.

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 Cowardin wetland type.