



WETLAND DELINEATION REPORT

for

Arroya Lane Road Expansion El Paso County, Colorado

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TABLE OF CONTENTS

1	Introduction.....	2
2	Ecological Setting.....	4
3	Methods.....	5
4	Background Documentation Review	6
4.1	Aerial Photograph Review	6
4.2	National Hydrography Dataset and National Wetlands Inventory Review	6
4.3	County Soil Survey Map Review	7
4.4	FEMA Floodplain Map Review	7
5	Field Survey Results.....	11
5.1	Vegetation	12
5.2	Soils.....	12
5.3	Hydrology	12
6	Conclusions and Recommendations	13
7	References	15

TABLES

TABLE 1. STUDY AREA WETLAND LOCATIONS AND CLASSIFICATIONS	11
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FIGURES

FIGURE 1. SITE LOCATION MAP	3
FIGURE 2. NATIONAL WETLAND INVENTORY/NATIONAL HYDROGRAPHY DATASET	8
FIGURE 3. NRCS SSURGO SOILS DATA.....	9
FIGURE 4. FEMA FLOOD HAZARD LAYER	10

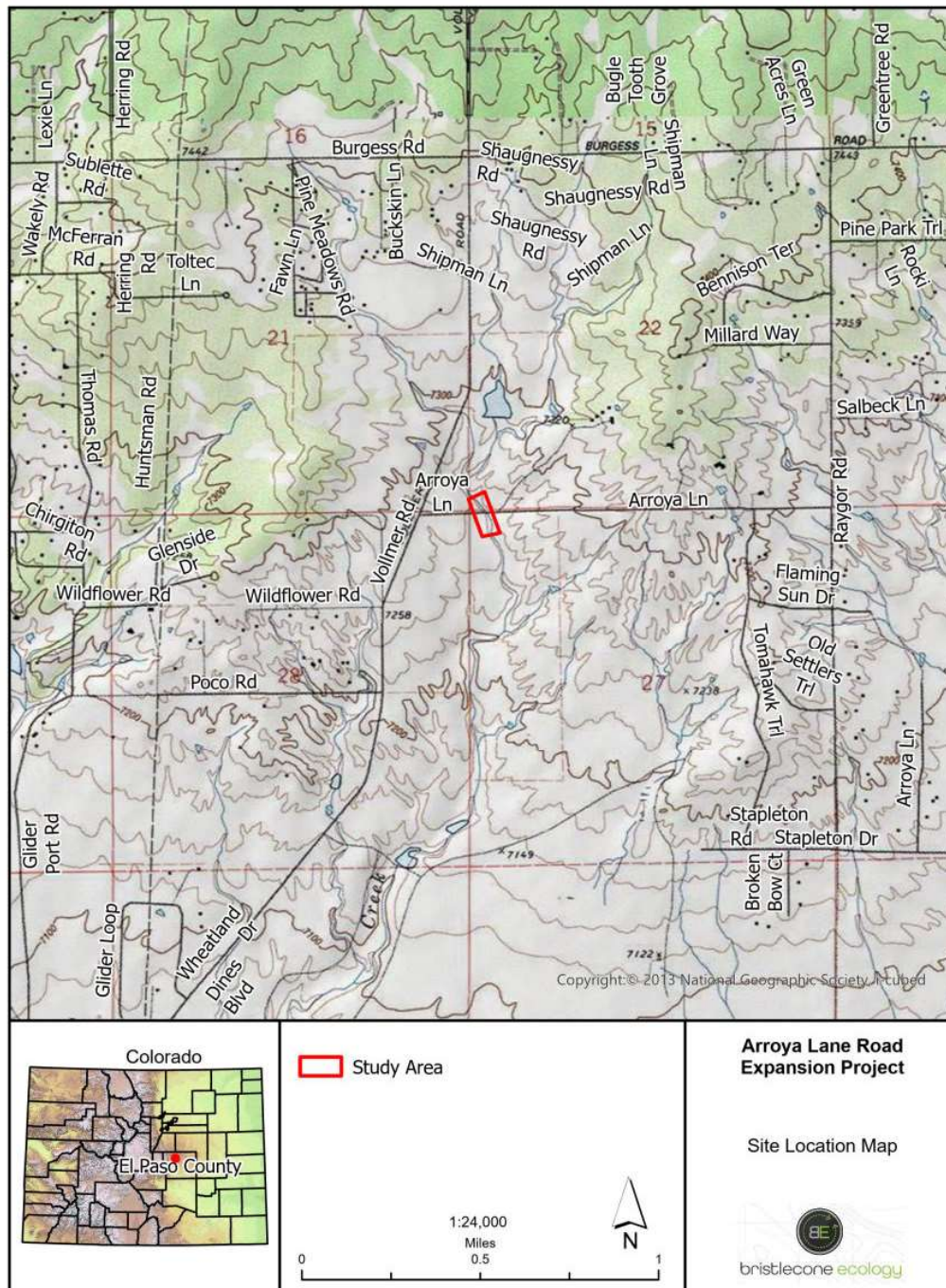
APPENDICES

APPENDIX A: WETLAND LOCATION MAP
APPENDIX B: PHOTOGRAPHIC LOG
APPENDIX C: WETLAND DETERMINATION DATA FORMS
APPENDIX D: OHWM DELINEATION DATASHEETS

1 INTRODUCTION

Classic Communities (“Proponent”) retained Bristlecone Ecology, LLC (“B.E.” or “Agent”) to perform a wetland assessment and prepare a Wetland Delineation Report for the proposed Arroya Lane road expansion project (“Project”) located in unincorporated El Paso County (EPC), Colorado. The Project is planned for the road crossing over Sand Creek approximately 1,000 feet east of Vollmer Road on the southern boundary of the Black Forest region (**Figure 1: Site Location Map**). The Project will be located in portions of Sections 22 and 27 in Township 12 South, Range 65 West, and can be found on the U.S. Geological Survey’s (USGS) Falcon NW 7.5-minute quadrangle (USGS 2020). The Project will expand and pave Arroya Lane to accommodate increased transportation in the area, and will upgrade the existing culvert to a triple-cell box culvert capable of conveying the corresponding higher flow volume in the Sand Creek floodplain. Additional infrastructure includes guardrails, wing walls for the culvert, riprap to stabilize the edges of the floodplain, a check structure to reduce flow velocity, grading, and other necessary modifications. Elevations range between approximately 7,235 and 7,250 feet above mean sea level (AMSL). The area delineated for the Project (hereinafter referred to as the “Study Area”) is a stretch of approximately 600 feet of Sand Creek bisected from east to west by Arroya Lane; Sand Creek runs through the Study Area generally from north to south. Sand Creek drains to Fountain Creek (and eventually to the Arkansas) in the Middle Fountain Creek watershed, 10-digit hydrologic unit code (HUC) 1102000303.

Figure 1: Site Location Map



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2 ECOLOGICAL SETTING

The Study Area is located at the intersection of two distinct ecoregions in Colorado: the Pine-Oak Woodlands and the Foothill Grasslands. The Foothills Grasslands ecoregion is composed of a mixture of tall and mid-grasses and isolated pine woodlands (Chapman et al. 2006). Dominant species include little bluestem (*Schizachyrium scoparium*), big bluestem (*Andropogon gerardii*), switchgrass (*Panicum virgatum*), and yellow Indiangrass (*Sorghastrum nutans*) (Chapman et al. 2006). The Pine-Oak Woodlands ecoregion is composed of a ponderosa pine (*Pinus ponderosa*) overstory, with a mid-story of Gambel oak (*Quercus gambelii*) and other shrubs and an herbaceous understory of mixed grasses such as mountain muhly (*Muhlenbergia montana*) and little bluestem. The Foothill Grassland occupy the majority of the site, with pine forest present along the northern edge of the Study Area.

The topography of the Study Area consists mainly of a mix of flat to rolling foothills grasslands, interspersed with scattered pine woodlands and a few shrubs. The Study Area can be broken down into vegetation subgroupings that largely correspond to the ecoregion types that are present. Foothill Grassland vegetation predominates, with pockets of Pine-Oak Woodlands vegetation interspersed in smaller quantities and concentrated in the areas mentioned above. Sand Creek forms a riparian and wetland corridor that bisects the Study Area from the north to the south. The wetland/riparian corridor has good plant diversity and healthy structure in a confined fluvial plain, while the surrounding grasslands show moderate diversity and relatively poor structure. Stable riparian and wetland communities along Sand Creek support species such as plains cottonwood (*Populus deltoides*), narrowleaf cottonwood (*Populus angustifolia*), peachleaf willow (*Salix amygdaloides*), and sandbar willow (*Salix exigua*), as well as a variety of sedges, rushes, and grasses. The pine forests nearby extend into the northern portion of the site, with ponderosa pines, mountain mahogany (*Cercocarpus montanus*), Western wheatgrass (*Pascopyrum smithii*), blue grama (*Bouteloua gracilis*), and mountain muhly the most common species.

Isolated areas of wetlands are found in the Foothill Grasslands ecoregion subgrouping within the Study Area. Wherever upland swales form due to topography in this subtype, the potential for wetter conditions supporting the formation of hydric soils and growth of hydrophytic vegetation is possible. Primary stream systems such as Sand Creek support more developed scrub-shrub wetlands along a longer, connected corridor. Upland swales in the Study Area did not support wetlands, but the Sand Creek floodplain supported large, contiguous areas of emergent and scrub-shrub wetlands.

3 METHODS

The purpose of the wetland delineation was to survey and delineate the boundaries of any potentially jurisdictional aquatic resources within the Study Area, as defined under Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA). Aquatic resources include jurisdictional wetlands and other regulated Waters of the U.S. (WOTUS) such as streams/rivers, ponds/lakes, and ditches, as well as non-regulated wetlands, streams/rivers, ponds/lakes, ditches, and other surface water features.

Prior to the on-site assessments, a preliminary desktop analysis was performed to evaluate overall aquatic resource characteristics of the Study Area and identify the locations of potentially jurisdictional wetlands and watercourses. Spatial data, aerial imagery sources, and other publicly available data reviewed included:

- USGS National Aerial imagery Program (NAIP),
- USGS National Hydrography Dataset (NHD),
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) maps,
- Natural Resource Conservation Service (NRCS) soil survey maps,
- and Federal Emergency Management Agency (FEMA) floodplain maps.

Prior wetland studies/delineations were also referenced. In May 2017, Core Consultants performed a formal wetland delineation and later walked the site with a USACE regulator, receiving a jurisdictional determination and confirmation of the findings of the wetland delineation. Since the Core Consultants wetland delineation is more than five years old and thus no longer valid, B.E. performed a new delineation on May 4th, 2023. Wetlands, streams, and other aquatic features identified in the desktop analysis were inspected in the field to assess their presence/absence and jurisdictional potential. The wetland delineation was performed in accordance with the Western Mountains, Valleys, and Coast Regional Supplement (Version 2.0) (USACE 2010) to the 1987 USACE Wetland Delineation Manual (USACE 1987).

The determination of a wetland depends on the presence or absence of three parameters: 1) hydrophytic vegetation, 2) hydric soils, and 3) wetland hydrology during the wettest season. Vegetation, soils, and hydrology were analyzed to determine the presence of wetlands, watercourses, and other special aquatic features. A wetland delineation was conducted for potential WOTUS, including wetlands, within the Study Area. Boundaries were mapped using a Trimble Geo 7X mapping unit (**Appendix A: Wetland Location Maps**). Photographs were taken depicting field conditions at the time of the site visits (**Appendix B: Photographic Log**). Results of the field assessment and descriptions of observed features are detailed below (**Appendix C: Wetland Determination Data Forms** and **Appendix D: OHWM Delineation Datasheets**). Wetland indicator status for vegetation was based on the National Wetland Plant List (Lichvar et al. 2020).

4 BACKGROUND DOCUMENTATION REVIEW

Aerial photographs, NWI maps, FEMA flood hazard maps, and county soil survey maps were utilized to document Study Area background information. A discussion of each evaluation process follows.

4.1 Aerial Photograph Review

Aerial photographs dated 1999, 2004, 2005, 2006, 2011, 2013, 2015, 2017, 2019, 2020, 2021, and 2022 were obtained from the U.S. Department of Agriculture (USDA) Farm Service Agency (USDA 2022). Aerial photograph interpretation was conducted to identify potential wetlands, watercourses, and other notable landscape features within the property. Aerial imagery showed darker vegetation along the Sand Creek fluvial plain, potentially indicative of wetlands. Vegetation appeared dense and shrubby closest to the Arroya Lane crossing, with shrubby vegetation extending for more than a half mile downgradient. Upgradient, the floodplain appeared to be more sparsely vegetated, with patches of shrubs and more emergent vegetation as one approaches the Sand Creek headwaters. Other potential wetland areas were not noted on aerial images; this assessment agrees with the prior wetland delineation by Corps Consultants and the concurring jurisdictional determination from the USACE. Aerial images may provide a starting point for determining the locations of wetlands, but they are often inaccurate and must be field verified.

4.2 National Hydrography Dataset and National Wetlands Inventory Review

The USFWS' NWI and USGS' NHD datasets were reviewed for the possible presence of wetlands and streams, respectively, within the Study Area. The NHD and NWI datasets depict the probable locations of aquatic resources based on aerial photograph interpretation. Aquatic resources include jurisdictional wetlands and other regulated WOTUS such as streams/rivers, ponds/lakes, and ditches, as well as non-regulated wetlands, streams/rivers, ponds/lakes, ditches, and other surface water features. NHD and NWI maps may not accurately depict the extent or existence of wetland and river systems in a specific area, nor do maps consistently and accurately identify wetland type. As such, the maps were utilized for preliminary analysis only. Aquatic features that were depicted in the data can be seen in **Figure 2: National Wetlands Inventory & National Hydrography Dataset Map**, and include the following three features:

- Sand Creek, which is identified in the NWI dataset throughout the site as Riverine, Intermittent, Streambed, temporarily flooded (R4SBA); the channel splits north of the site boundary. The NHD data shows Sand Creek in the same location as the NWI.
- A tributary to Sand Creek is shown joining the main channel from the northeast, and is identified in the NWI dataset as Riverine, Intermittent, Streambed, seasonally flooded (R4SBC). The NHD data shows this tributary in the same location as the NWI data.
- A small pond is shown along the tributary near the eastern edge of the Study Area, identified in the NWI as a Palustrine, Unconsolidated Bottom, semi-permanently flooded wetland (PUBF). This pond is shown in the NHD data in the same location.

4.3 County Soil Survey Map Review

County soil survey data indicate that the site is composed entirely of Pring coarse sandy loam, 3 to 8 percent slopes (**Figure 3: NRCS SSURGO Soils Data**). The Pring soils series is a consociation, so other, minor soil series may be present within it (NRCS 2023). The primary minor series that forms the remainder of the consociation is the Pleasant series, which is typically found in depressions and is rated as hydric in El Paso County (NRCS 2023).

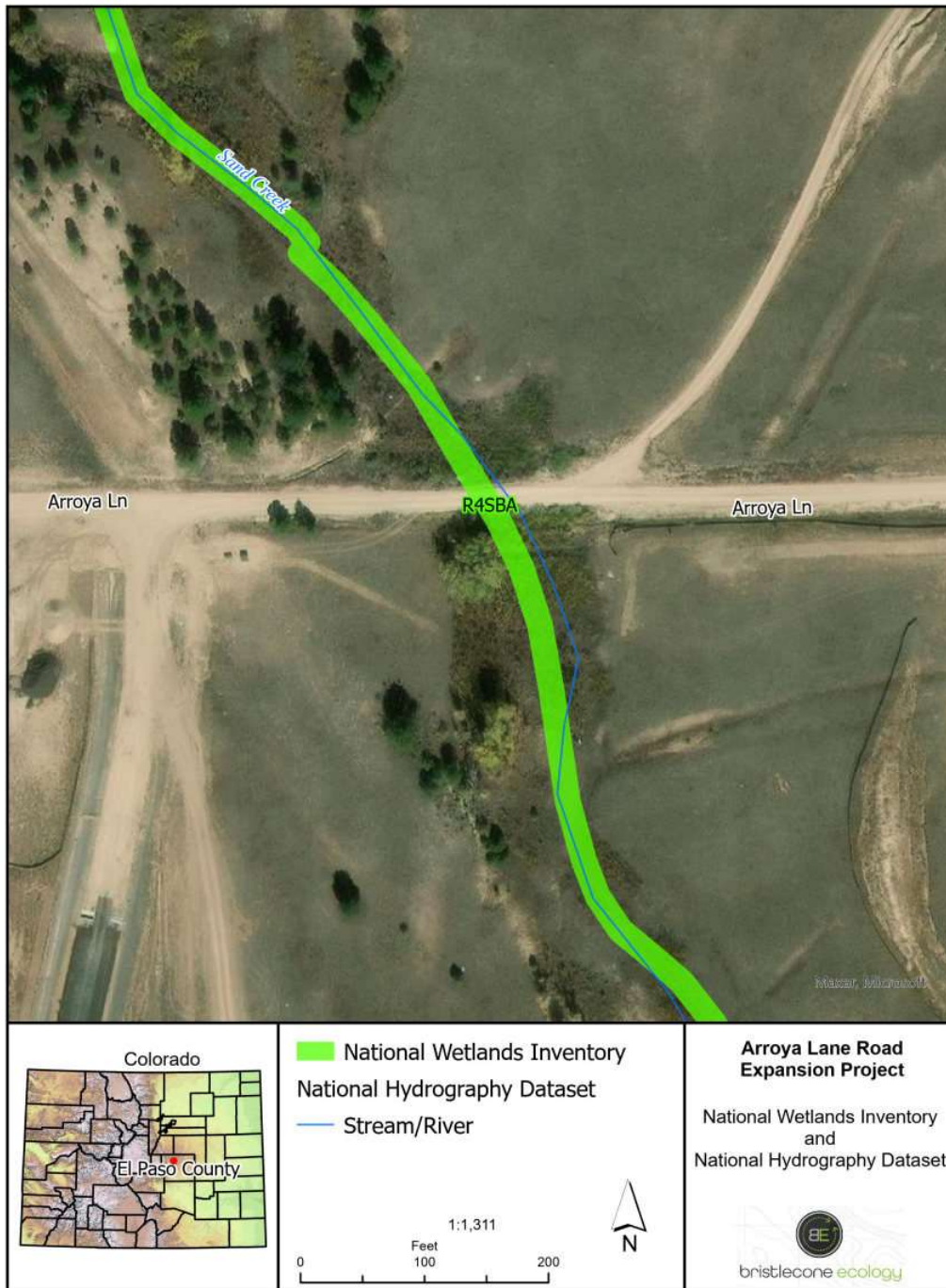
A review of the hydric soil ratings for all soil components present in the Study Area was performed to aid in the determination of wetland habitats during the site reconnaissance. Hydric soils are those that form under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions, and their formation is required for the establishment of wetlands to take place. The Pring series was described as having a hydric rating of zero (less than 1% hydric components) (NRCS 2023). The minor Pleasant component of the Pring consociation is rated as hydric in EPC under the criterion that it is “frequently ponded for long or very long duration during the growing season” (NRCS 2023). Based on these ratings, the suitability of the fluvial plain and other depressions where the Pleasant component is more likely to be found, and relatively low everywhere else. If wetlands occur onsite, they are most likely to form along the Sand Creek corridor, and possibly within other isolated depressions.

4.4 FEMA Floodplain Map Review

A review of FEMA floodplain hazard maps (FEMA 2023) was conducted to determine the existence, location, and extent of floodplains located within the Study Area. The floodplain hazard maps depict floodplain areas along rivers and tributaries. The maps record the following data: 100-year floodplains (1% chance of annual flooding) and 500-year floodplains (0.2% annual chance of flooding), the height of the base flood (Base Flood Elevations), and the risk premium zones developed from topographical information across a floodplain. FEMA generates floodplain maps for flood insurance purposes.

A review of the National FEMA flood hazard layer (2023) indicated that portions of the Study Area within and adjacent to Sand Creek are in Zone AE, and are thus at risk of inundation by a 100-year flood (**Figure 4: FEMA Flood Hazard Layer**). In addition, a small portion of the remaining area within the Sand Creek fluvial plain is within the 500-year flood zone (0.2% annual chance of flooding) (**Figure 4**). The remainder of the property is identified as Zone X flood zone, which consists of areas of minimal flood risk “outside the 1-percent and 0.2-percent-annual-chance floodplains” (FEMA 2005).

Figure 2: National Wetland Inventory & National Hydrography Dataset



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Figure 3: NRCS SSURGO Soils Data



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Figure 4: FEMA Flood Hazard Layer



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5 FIELD SURVEY RESULTS

A formal wetland delineation was first performed on the site in May 2017 by Core Consultants. A site visit with USACE representatives later confirmed the boundaries and regulatory status of wetlands delineated on the site at that time. B.E. performed a new delineation on May 4th, 2023, to update the boundaries of the wetlands delineated in 2017 in anticipation of future Section 404 permitting (see **Appendix A: Wetland Location Map**). One feature, Sand Creek and its associated wetlands, was delineated as two wetlands (W1 and W2) separated by Arroya Lane but connected hydrologically by a culvert under the road. Sand Creek is presumed jurisdictional under the CWA, as are all its abutting wetlands, based on the prior delineation and jurisdictional determination. There were no wetlands delineated onsite that were suspected to be non-jurisdictional (**Appendix A**). There was no OHWM that could be detected within the fluvial plain, as confirmed using the USACE’s *Guide to Ordinary High Water Mark (OHWM) Delineation in the Western Mountains, Valleys, and Coast Region of the United States* (see **Appendix D**). The wetlands delineated on the site are further classified in **Table 1** below.

Table 1. Study Area Wetland Locations and Classifications

Wetland ID	Latitude	Longitude	Wetland Type	Size	Regulatory Status ¹
W1	38.983412°	-104.662243°	PSS1A – Palustrine, Scrub-Shrub, Broad-Leaved Deciduous, Temporarily Flooded	0.64 acres	Jurisdictional
W2	38.984375°	-104.662956°	PSS1A – Palustrine, Scrub-Shrub, Broad-Leaved Deciduous, Temporarily Flooded	0.42 acre	Jurisdictional

¹ Presumed status based on professional opinion. Only the USACE may determine official regulatory status.

The features listed in **Table 1** above are described in greater detail below. Photographs of the site can be seen in **Appendix B: Photographic Log**, which includes general overview photos of the site. Datasheets for wetland and upland sampling and for OHWM delineations are provided in **Appendix C: Wetland Determination Data Forms**, and **Appendix D: OHWM Delineation Datasheets**.

- Sand Creek is a broad fluvial plain that supports an extensive swath of scrub-shrub wetlands within the floodplain and exists largely as depicted in the NWI/NHD data. There are several Palustrine wetlands associated with Sand Creek including areas of emergent wetlands, but most wetlands throughout this reach (i.e., in the Study Area) are scrub-shrub wetlands with well-developed structure. W1 and W2 are separated by Arroya Lane and are hydrologically connected by a culvert under the roadway. Wetlands associated with Sand Creek are mostly composed of shrubby sandbar willows, with an understory of herbaceous species including Nebraska sedge (*Carex nebrascensis*), beaked sedge (*Carex utriculata*), Baltic rush (*Juncus balticus*), and redtop (*Agrostis gigantea*). Overall quality is moderate, though the understory tends to lack diversity and consist of many FAC, FACU, and UPL plants in addition to the above-mentioned hydrophytes.
- The R4SBC wetland depicted in the NWI data does not exist as shown in **Figure 2**. According to the prior wetland study, this feature was mapped as an erosional feature and was

determined by the USACE to be non-jurisdictional. The area has since been cleared of vegetation and graded as a roadway to access the Timber Ridge Filing No. 2 development to the south. That development was authorized under Action No. SPA-2017-00219, issued on October 26th, 2022. See photos in **Appendix B** at this location for current conditions.

- The PUBF wetland identified in the NWI data along the R4SBC tributary is present behind a manmade berm and was apparently created for the purpose of watering livestock. This feature has also been affected by development associated with Filing No. 2. The PUBF wetland was determined to be non-jurisdictional in 2017 by the USACE, according to the previous wetland study. See photos in **Appendix B**.

5.1 Vegetation

Dominant vegetation at wetland locations included the aforementioned Nebraska sedges, beaked sedges, Baltic rushes, and sandbar willows. A few peachleaf willows, plains cottonwoods, and narrowleaf cottonwoods were present in patches along Sand Creek throughout the reach. Other hydrophytes observed in smaller numbers included redtop and Drummond's rush (*Juncus drummondii*). Many upland plants such as slender wheatgrass (*Elymus trachycaulus*), Canada wildrye (*Elymus canadensis*), smooth brome (*Bromus inermis*), great mullein (*Verbascum thapsus*), yarrow (*Achillea millefolium*), and Canada thistle (*Cirsium arvense*) were present in wetlands. Most sample points were only narrowly dominated by true hydrophytic vegetation. Sand Creek's associated riparian corridor supports a few large trees, a healthy understory, and dense forb and grass cover along a broad fluvial plain; at times, the transition between the wetlands and the riparian corridor was difficult to determine; topography was often the clearest indication of the wetland/non-wetland boundary.

5.2 Soils

Eight soil samples were taken at soil sample pits within the Study Area (**Appendix C: Wetland Delineation Forms**). Soil samples were taken in either Pring sandy loams or the minor Pleasant soil component, with wetland areas predominantly corresponding to the Pleasant series' soil profile (**Appendix C**). For W1, several sample points were taken in various locations throughout the floodplain to clarify the extent of wetlands. While the vegetation throughout the floodplain was highly variable and generally not overwhelmingly comprised of wetland plants, the soils in the floodplain were very clearly hydric (**Appendix C**). Positive hydric soil indicators at soil sample locations throughout the site included A4 (Hydrogen Sulfide), A11 (Depleted Below Dark Surface), S5 (Sandy Redox), and F6 (Redox Dark Surface) (**Appendix C**). At W2, two paired sample point were sufficient to determine the clear boundary between uplands and wetlands. See **Appendix A** and **Appendix C**.

5.3 Hydrology

Hydrology across all wetlands in the Study Area is provided primarily by normal precipitation and runoff events. Positive hydrologic indicators at sample points throughout the site very fairly limited, including hydrogen sulfide odor (C1), oxidized rhizospheres (C3), drainage patterns (B10), and a FAC-neutral test (D5) (**Appendix C**). Despite substantial precipitation throughout the spring preceding the site visit, there was no surface water, saturation, or water table observed. See **Appendix A** and **Appendix C**.

6 CONCLUSIONS AND RECOMMENDATIONS

In summary, two presumably jurisdictional Palustrine scrub-shrub wetlands (W1 and W2) are located in the Study Area. The two wetlands are separated by Arroya Lane but remain connected hydrologically by a culvert under the road. The two other aquatic features identified in the NWI/NHD data were not present. W1 and W2 are located within the Sand Creek fluvial plain, and are thus presumed to be jurisdictional. Accordingly, any impacts to jurisdictional WOTUS or associated hydrologically connected or abutting wetlands would require permitting through the USACE under Section 404 of the CWA.

The USACE typically has jurisdiction over navigable or traditionally navigable waters (TNWs), perennial and intermittent tributaries to TNWs, lakes, ponds, and impoundments of jurisdictional waters, and wetlands adjacent to such waters (85 Federal Register 22250). Following the announcement of the U.S. Supreme Court’s ruling on May 25th, 2023 (SCOTUS 2023), jurisdictional wetlands include only those wetlands that abut or maintain “a continuous surface connection” to WOTUS. Isolated and adjacent wetlands (i.e., those not abutting or otherwise hydrologically connected to other jurisdictional waters) are not considered WOTUS and are not under USACE’s jurisdiction. In personal correspondence with B.E. since the decision, the USACE has also provided the following guidance, seemingly in contradiction to the U.S. Supreme Court’s ruling:

“The agencies (USEPA, Army, DOJ and USACE HQ) are working together to understand the decision and develop guidance. The SCOTUS decision did not vacate any rule, so the 2023 WOTUS rule is still in effect per current litigation on that rule. USACE HQ has advised that we pause all approved jurisdiction determinations, however, we can still process permits under a preliminary jurisdiction determination or no jurisdiction determination.”

An approved jurisdictional determination (AJD) may be required to determine the regulatory status of presumably non-jurisdictional aquatic resources, such as isolated or adjacent wetlands. However, since the Proponent has already obtained an AJD previously, and presumes all wetlands associated with Sand Creek and its fluvial plain are jurisdictional, B.E. advises the Proponent to proceed with permitting for any impacts to the Sand Creek wetlands anticipated from Project development. Impacts to WOTUS should be avoided and minimized to the extent possible. A permit under Section 404 of the CWA is required for the discharge of dredged or fill material into WOTUS and mitigation may be required.

While the USACE regulates only those activities resulting in a discharge of dredge or fill material into Waters of the U.S., the Colorado Department of Public Health and Environment (CDPHE) has the authority to regulate activities resulting in a discharge of pollutants into state waters. The CDPHE conducts Section 401 certification reviews of projects in Colorado requiring a Section 404 permit from the USACE. The purpose of certification review is to determine whether a proposed discharge will comply with Colorado water quality standards.

In Colorado, joint Section 404 and 401 permitting is authorized through the Nationwide Permit (NWP) program. An NWP is a simplified 404 permit for some small-scale activities which minimally affect WOTUS, and is designed to streamline the permitting process and eliminate the need to issue an Individual Permit (IP). NWPs allow certain activities to take place which result in minimal impacts to

September 25, 2023

WOTUS, including wetlands. If the Project should require a permit, an NWP 14 for Linear Transportation Projects would likely be the applicable NWP for the Project.

Should impacts to WOTUS exceed the threshold of an NWP, the Project would be permitted under an IP, or standard permit. An IP requires a 30-day public notice period, and a separate 401 Water Quality Certification would be required through CDPHE. It is anticipated that Project construction can be completed without exceeding the impact thresholds of NWP 14, and thus an IP is not expected to be necessary.

Should you have any questions regarding the information or recommendations provided in this report, please feel free to contact Bristlecone Ecology at dmaynard@bristleconeecology.com.

Sincerely,

Bristlecone Ecology, LLC



Daniel Maynard
Ecologist

7 REFERENCES

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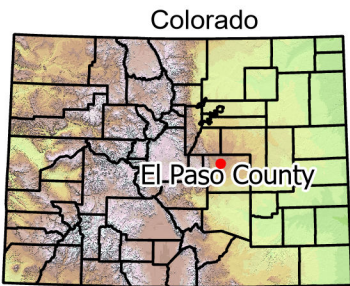
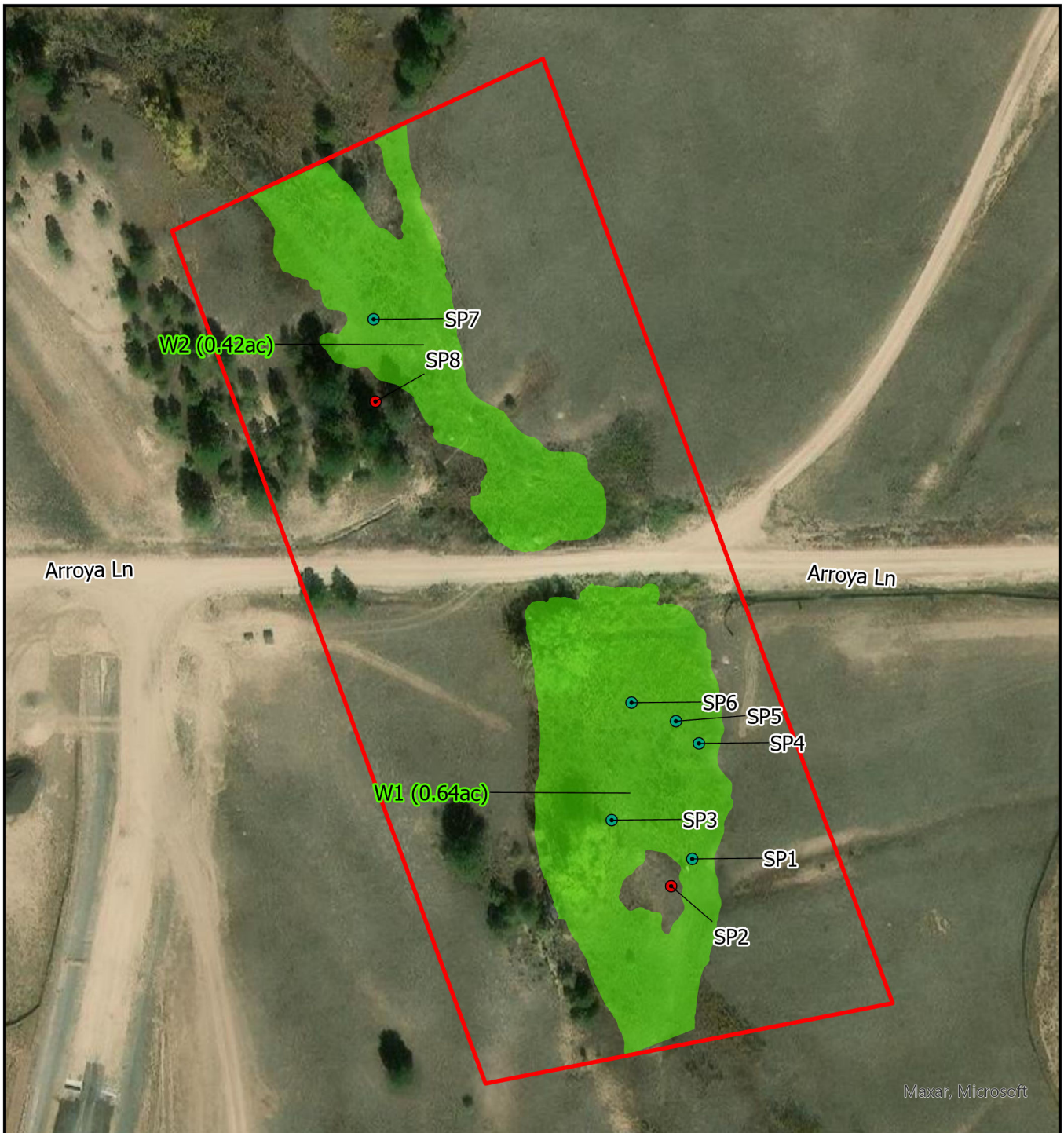
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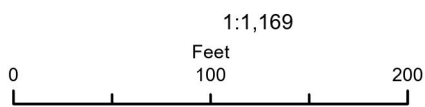
USGS. 1986a. Geologic map of the Falcon NW, CO quadrangle. Scale = 1:24,000.



APPENDIX A:
WETLAND LOCATION MAP



- Study Area
- Wetlands (1.06 acres)
- Upland Point
- Wetland Point



Arroya Lane Road Expansion Project

Wetland Location Map





APPENDIX B:
PHOTOGRAPHIC LOG



Scrub-shrub wetlands in the Sand Creek floodplain south of Arroya Lane, facing southwest. Wetlands on the site such as these were confined to a fluvial plain and highly dependent upon elevation. The transition to uplands is clearly visible at the toe of slope in the foreground.



Another view of the wetlands south of Arroya Lane as seen from the roadway, facing southeast. A few large trees are visible in the floodplain, as well as a few stray ponderosas on the hillslopes above Sand Creek. The Arroya Lane expansion will affect wetlands on both sides of the roadway.



Wetlands north of Arroya Lane as seen from the roadway, facing northwest. Similarly to the area south of the road, wetlands closely follow the fluvial plain of Sand Creek, with the slightest increase in elevation resulting in a transition to upland areas dominated by ponderosa pine forests or grasslands.



Another view of the wetlands north of Arroya Lane as seen from the roadway, facing north. The pines of the Black Forest can be seen in the distance, with a few creeping down the slopes toward Sand Creek. The large culvert conveys flows under the road.



Final view from Arroya Lane looking into the willows in the floodplain with the culvert visible, facing south. There is no evidence of an OHWM present – no bed, no banks, no scour, no changes in sediment or topography – just a broad fluvial plain with willows.



APPENDIX C:
WETLAND DETERMINATION DATA FORMS

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP1
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S27, T12S, R65W
 Landform (hillside, terrace, etc.): swale Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): LRR E Lat: 38.983412 Long: -104.662270 Datum: WGS 84
 Soil Map Unit Name: Pleasant (Torrertic Argiustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.																					
3.																					
4.																					
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'x15'</u>)																				
1.	<u>Salix exigua</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>55</u></td> <td>x 1 = <u>55</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>2</u></td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>107</u> (A)</td> <td><u>171</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.60</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>55</u>	x 1 = <u>55</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>2</u>	x 3 = <u>6</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>107</u> (A)	<u>171</u> (B)	Prevalence Index = B/A = <u>1.60</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>55</u>	x 1 = <u>55</u>																				
FACW species <u>45</u>	x 2 = <u>90</u>																				
FAC species <u>2</u>	x 3 = <u>6</u>																				
FACU species <u>5</u>	x 4 = <u>20</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>107</u> (A)	<u>171</u> (B)																				
Prevalence Index = B/A = <u>1.60</u>																					
2.																					
3.																					
4.																					
5.																					
=Total Cover																					
Herb Stratum	(Plot size: <u>5'x5'</u>)																				
1.	<u>Carex nebrascensis</u>	<u>55</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Verbascum thapsus</u>	<u>3</u>	<u>No</u>	<u>FACU</u>																	
3.	<u>Juncus balticus</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
4.	<u>Cirsium arvense</u>	<u>2</u>	<u>No</u>	<u>FAC</u>																	
5.	<u>Taraxacum officinale</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
6.	<u>Achillea millefolium</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
7.	<u>Other forbs</u>	<u>3</u>	<u>No</u>																		
8.																					
9.																					
10.																					
11.																					
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'x30'</u>)																				
1.					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2.																					
=Total Cover																					
% Bare Ground in Herb Stratum		<u>15</u>																			

Remarks:

SOIL

Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/2	97	10yr 5/8	3	C	PL	Sandy	Sandy clay loam
4-7	10YR 5/3	100					Sandy	
7-11	10YR 3/2	96	10YR 5/8	4	C	PL	Loamy/Clayey	Silty clay loam
11-14	10YR 3/3	100					Sandy	
14-24	10YR 2/2	97	10YR 5/8	3	C	PL	Sandy	Sandy loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			Indicators for Problematic Hydric Soils ³ :		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)			
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)			
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)			
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)				
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)				
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)				

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

Restrictive Layer (if observed): Type: <u>N/A</u> Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP2
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S27, T12S, R65W
 Landform (hillside, terrace, etc.): stream terrace Local relief (concave, convex, none): none Slope (%):
 Subregion (LRR): LRR E Lat: 38.98336451 Long: -104.66232345 Datum: WGS 84
 Soil Map Unit Name: Pring (Aridic Haplustolls) NWI classification: R4SBA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'x15'</u>)				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>4</u></td> <td>x 3 = <u>12</u></td> </tr> <tr> <td>FACU species <u>14</u></td> <td>x 4 = <u>56</u></td> </tr> <tr> <td>UPL species <u>63</u></td> <td>x 5 = <u>315</u></td> </tr> <tr> <td>Column Totals: <u>86</u> (A)</td> <td><u>393</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.57</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>4</u>	x 3 = <u>12</u>	FACU species <u>14</u>	x 4 = <u>56</u>	UPL species <u>63</u>	x 5 = <u>315</u>	Column Totals: <u>86</u> (A)	<u>393</u> (B)	Prevalence Index = B/A = <u>4.57</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>5</u>	x 2 = <u>10</u>																				
FAC species <u>4</u>	x 3 = <u>12</u>																				
FACU species <u>14</u>	x 4 = <u>56</u>																				
UPL species <u>63</u>	x 5 = <u>315</u>																				
Column Totals: <u>86</u> (A)	<u>393</u> (B)																				
Prevalence Index = B/A = <u>4.57</u>																					
1.	<u>Salix exigua</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
=Total Cover																					
Herb Stratum	(Plot size: <u>5'x5'</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Artemisia frigida</u>	<u>7</u>	<u>No</u>	<u>UPL</u>																	
2.	<u>Buteloua dactyloides</u>	<u>41</u>	<u>Yes</u>	<u>UPL</u>																	
3.	<u>Potentilla gracilis</u>	<u>3</u>	<u>No</u>	<u>FAC</u>																	
4.	<u>Taraxacum officinale</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
5.	<u>Rumex crispus</u>	<u>1</u>	<u>No</u>	<u>FAC</u>																	
6.	<u>Eriogonum ovalifolium</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
7.	<u>Muhlenbergia montana</u>	<u>15</u>	<u>Yes</u>	<u>UPL</u>																	
8.	<u>Achillea millefolium</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
9.	<u>Other forbs</u>	<u>10</u>	<u>No</u>	_____																	
10.	_____	_____	_____	_____																	
11.	_____	_____	_____	_____																	
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'x30'</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
=Total Cover																					
% Bare Ground in Herb Stratum		<u>10</u>																			

Remarks:

SOIL

Sampling Point: SP2

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/2	100					Sandy	sandy loam
8-14	10YR 3/4	100					Sandy	Gravelly sand
14-16	10YR 3/2	100					Loamy/Clayey	Loamy sand
16-24	10YR 5/3	100					Sandy	Coarse sand

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

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

Restrictive Layer (if observed): Type: <u>N/a</u> Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP3
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S27, T12S, R65W
 Landform (hillside, terrace, etc.): stream terrace Local relief (concave, convex, none): none Slope (%): 4
 Subregion (LRR): LRR E Lat: 38.98348394 Long: -104.66245496 Datum: WGS 84
 Soil Map Unit Name: Pring (Aridic Haplustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																
1. <u>Populus angustifolia</u>		35	Yes	FACW																	
2. _____																					
3. _____																					
4. _____																					
		35	=Total Cover																		
Sapling/Shrub Stratum	(Plot size: <u>15'x15'</u>)				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>12</u></td> <td>x 4 = <u>48</u></td> </tr> <tr> <td>UPL species <u>45</u></td> <td>x 5 = <u>225</u></td> </tr> <tr> <td>Column Totals: <u>162</u> (A)</td> <td><u>483</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.98</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>105</u>	x 2 = <u>210</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>12</u>	x 4 = <u>48</u>	UPL species <u>45</u>	x 5 = <u>225</u>	Column Totals: <u>162</u> (A)	<u>483</u> (B)	Prevalence Index = B/A = <u>2.98</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>105</u>	x 2 = <u>210</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>12</u>	x 4 = <u>48</u>																				
UPL species <u>45</u>	x 5 = <u>225</u>																				
Column Totals: <u>162</u> (A)	<u>483</u> (B)																				
Prevalence Index = B/A = <u>2.98</u>																					
1. <u>Salix exigua</u>		40	Yes	FACW																	
2. <u>Rosa woodsii</u>		2	No	FACU																	
3. _____																					
4. _____																					
5. _____																					
		42	=Total Cover																		
Herb Stratum	(Plot size: <u>5'x5'</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5 - Wetland Non-Vascular Plants ¹ ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Juncus balticus</u>		30	Yes	FACW																	
2. <u>Bromus inermis</u>		45	Yes	UPL																	
3. <u>Taraxacum officinale</u>		7	No	FACU																	
4. <u>Achillea millefolium</u>		2	No	FACU																	
5. <u>Other forbs</u>		2	No																		
6. <u>Antennaria neglecta</u>		1	No	FACU																	
7. _____																					
8. _____																					
9. _____																					
10. _____																					
11. _____																					
		87	=Total Cover																		
Woody Vine Stratum	(Plot size: <u>30'x30'</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
1. _____																					
2. _____																					
			=Total Cover																		
% Bare Ground in Herb Stratum <u>13</u>																					

Remarks:

SOIL

Sampling Point: SP3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 2/1	97	5YR 5/8	3	C	M	Loamy/Clayey	Clay loam
5-11	10YR 3/2	95	5YR 5/8	2	C	M	Sandy	gravely sand
11-24	10YR 3/3	100					Sandy	gravely sand

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
5-11": 10Y 6/2, 3%, sandy clay

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP4
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S27, T12S, R65W
 Landform (hillside, terrace, etc.): stream terrace Local relief (concave, convex, none): concave Slope (%): 7
 Subregion (LRR): LRR E Lat: 38.983616 Long: -104.662257 Datum: WGS 84
 Soil Map Unit Name: Pleasant (Torrertic Argiustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2.																					
3.																					
4.																					
=Total Cover																					
Sapling/Shrub Stratum (Plot size: <u>15'x15'</u>)																					
1.	<u>Salix exigua</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC species <u>19</u></td> <td>x 3 = <u>57</u></td> </tr> <tr> <td>FACU species <u>8</u></td> <td>x 4 = <u>32</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>127</u> (A)</td> <td><u>379</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.98</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>70</u>	x 2 = <u>140</u>	FAC species <u>19</u>	x 3 = <u>57</u>	FACU species <u>8</u>	x 4 = <u>32</u>	UPL species <u>30</u>	x 5 = <u>150</u>	Column Totals: <u>127</u> (A)	<u>379</u> (B)	Prevalence Index = B/A = <u>2.98</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>70</u>	x 2 = <u>140</u>																				
FAC species <u>19</u>	x 3 = <u>57</u>																				
FACU species <u>8</u>	x 4 = <u>32</u>																				
UPL species <u>30</u>	x 5 = <u>150</u>																				
Column Totals: <u>127</u> (A)	<u>379</u> (B)																				
Prevalence Index = B/A = <u>2.98</u>																					
2.																					
3.																					
4.																					
5.																					
=Total Cover																					
Herb Stratum (Plot size: <u>5'x5'</u>)																					
1.	<u>Juncus balticus</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Bromus inermis</u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>																	
3.	<u>Taraxacum officinale</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
4.	<u>Achillea millefolium</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
5.	<u>Cirsium arvense</u>	<u>3</u>	<u>No</u>	<u>FAC</u>																	
6.	<u>Elymus trachycaulus</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
7.	<u>Verbascum thapsus</u>	<u>4</u>	<u>No</u>	<u>FACU</u>																	
8.	<u>Potentilla gracilis</u>	<u>2</u>	<u>No</u>	<u>FAC</u>																	
9.	<u>Other forbs</u>	<u>4</u>	<u>No</u>	<u>FAC</u>																	
10.																					
11.																					
=Total Cover																					
Woody Vine Stratum (Plot size: <u>30'x30'</u>)																					
1.																					
2.																					
=Total Cover																					
% Bare Ground in Herb Stratum <u> </u>																					

Remarks:

SOIL

Sampling Point: SP4

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 2/2	100					Loamy/Clayey	Loamy sandy
3-9	10YR 2/2	99	5YR 4/6	2	C	M	Sandy	Sandy loam
9-20	10YR 3/2	90	5YR 4/6	10	CS	M	Sandy	
20-24	10YR 2/1	90	2.5YR 3/6	10	C	PL/M	Sandy	Type: C, CS, Sandy clay loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: <u>N/a</u> Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

SOIL

Sampling Point: SP5

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 2/2	100					Loamy/Clayey	Loamy sandy
2-8	10YR 2/2	99	5YR 4/6	2	C	M	Sandy	Sandy loam
8-20	10YR 3/2	90	5YR 4/6	5	CS	M	Sandy	Sandy clay loam
20-24	10YR 2/1	90	2.5YR 3/6	3	C	PL/M	Sandy	Sandy clay loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

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

Restrictive Layer (if observed): Type: <u>N/a</u> Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP6
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S27, T12S, R65W
 Landform (hillside, terrace, etc.): stream terrace Local relief (concave, convex, none): concave Slope (%): 4
 Subregion (LRR): LRR E Lat: 38.983692 Long: -104.662377 Datum: WGS 84
 Soil Map Unit Name: Pleasant (Torrertic Argiustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2.																					
3.																					
4.																					
				=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15'x15'</u>)																					
1.	<u>Salix exigua</u>	<u>50</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>14</u></td> <td>x 3 = <u>42</u></td> </tr> <tr> <td>FACU species <u>4</u></td> <td>x 4 = <u>16</u></td> </tr> <tr> <td>UPL species <u>40</u></td> <td>x 5 = <u>200</u></td> </tr> <tr> <td>Column Totals: <u>148</u> (A)</td> <td><u>438</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.96</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>14</u>	x 3 = <u>42</u>	FACU species <u>4</u>	x 4 = <u>16</u>	UPL species <u>40</u>	x 5 = <u>200</u>	Column Totals: <u>148</u> (A)	<u>438</u> (B)	Prevalence Index = B/A = <u>2.96</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>90</u>	x 2 = <u>180</u>																				
FAC species <u>14</u>	x 3 = <u>42</u>																				
FACU species <u>4</u>	x 4 = <u>16</u>																				
UPL species <u>40</u>	x 5 = <u>200</u>																				
Column Totals: <u>148</u> (A)	<u>438</u> (B)																				
Prevalence Index = B/A = <u>2.96</u>																					
2.																					
3.																					
4.																					
		<u>50</u>		=Total Cover																	
Herb Stratum (Plot size: <u>5'x5'</u>)																					
1.	<u>Juncus balticus</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Bromus inermis</u>	<u>40</u>	<u>Yes</u>	<u>UPL</u>																	
3.	<u>Taraxacum officinale</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
4.	<u>Achillea millefolium</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
5.	<u>Cirsium arvense</u>	<u>3</u>	<u>No</u>	<u>FAC</u>																	
6.	<u>Elymus canadensis</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
7.	<u>Verbascum thapsus</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
8.	<u>Potentilla gracilis</u>	<u>1</u>	<u>No</u>	<u>FAC</u>																	
9.	<u>Other forbs</u>	<u>2</u>	<u>No</u>																		
10.																					
		<u>100</u>		=Total Cover																	
Woody Vine Stratum (Plot size: <u>30'x30'</u>)																					
1.					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2.																					
				=Total Cover																	
% Bare Ground in Herb Stratum		<u>0</u>																			

Remarks:

SOIL

Sampling Point: SP6

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 2/2	100					Loamy/Clayey	Loamy sand
2-10	10YR 2/2	99	5YR 4/6	2	C	M	Sandy	Sandy loam
10-18	10YR 3/2	90	5YR 4/6	3	C	M	Sandy	Type: C, CS, Sandy clay loam
18-24	10YR 2/1	90	2.5YR 3/6	2	C	M	Sandy	Sandy clay loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)	
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)		

Restrictive Layer (if observed): Type: <u>N/a</u> Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic Communities State: CO Sampling Point: SP7
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S22, T12S, R65W
 Landform (hillside, terrace, etc.): swale/drainage Local relief (concave, convex, none): concave Slope (%): 2
 Subregion (LRR): LRR E Lat: 38.984376 Long: -104.662990 Datum: WGS 84
 Soil Map Unit Name: Pring (Aridic Haplustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.																					
3.																					
4.																					
=Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>15'x15'</u>)																				
1.	<u>Salix exigua</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>75</u></td> <td>x 1 = <u>75</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>2</u></td> <td>x 4 = <u>8</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>117</u> (A)</td> <td><u>168</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.44</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>75</u>	x 1 = <u>75</u>	FACW species <u>35</u>	x 2 = <u>70</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>2</u>	x 4 = <u>8</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>117</u> (A)	<u>168</u> (B)	Prevalence Index = B/A = <u>1.44</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>75</u>	x 1 = <u>75</u>																				
FACW species <u>35</u>	x 2 = <u>70</u>																				
FAC species <u>5</u>	x 3 = <u>15</u>																				
FACU species <u>2</u>	x 4 = <u>8</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>117</u> (A)	<u>168</u> (B)																				
Prevalence Index = B/A = <u>1.44</u>																					
2.																					
3.																					
4.																					
5.																					
=Total Cover																					
Herb Stratum	(Plot size: <u>5'x5'</u>)																				
1.	<u>Carex nebrascensis</u>	<u>75</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u>Juncus balticus</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
3.	<u>Verbascum thapsus</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
4.	<u>Cirsium arvense</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
5.	<u>Other forb</u>	<u>8</u>	<u>No</u>																		
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
=Total Cover																					
Woody Vine Stratum	(Plot size: <u>30'x30'</u>)																				
1.					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2.																					
=Total Cover																					
% Bare Ground in Herb Stratum		<u>5</u>																			

Remarks:

SOIL

Sampling Point: SP7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/1	90	5YR 4/6	5	C	PL/M	Loamy/Clayey	Clay loam
9-24	2.5Y 4/2	100					Sandy	Coarse sand

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			Indicators for Problematic Hydric Soils ³ :		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)			
<input type="checkbox"/> Histic Epipedon (A2)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)			
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)				
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)				
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)				

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
0-9": 2.5Y 4/2, 5%

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Timber Ridge City/County: El Paso County Sampling Date: 5/4/23
 Applicant/Owner: Classic State: CO Sampling Point: SP8
 Investigator(s): Daniel Maynard & Emily DeAlto Section, Township, Range: S22, T12S, R65W
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10
 Subregion (LRR): LRR E Lat: 38.984235 Long: -104.663001 Datum: WGS 84
 Soil Map Unit Name: Pring (Aridic Haplustolls) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation N, Soil N, or Hydrology N 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 <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)																
1. <u><i>Pinus ponderosa</i></u>		<u>20</u>	Yes	FACU																	
2. _____																					
3. _____																					
4. _____																					
		<u>20</u> =Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15'x15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>7</u></td> <td>x 2 = <u>14</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>62</u></td> <td>x 4 = <u>248</u></td> </tr> <tr> <td>UPL species <u>27</u></td> <td>x 5 = <u>135</u></td> </tr> <tr> <td>Column Totals: <u>96</u> (A)</td> <td><u>397</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.14</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>7</u>	x 2 = <u>14</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>62</u>	x 4 = <u>248</u>	UPL species <u>27</u>	x 5 = <u>135</u>	Column Totals: <u>96</u> (A)	<u>397</u> (B)	Prevalence Index = B/A = <u>4.14</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>7</u>	x 2 = <u>14</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>62</u>	x 4 = <u>248</u>																				
UPL species <u>27</u>	x 5 = <u>135</u>																				
Column Totals: <u>96</u> (A)	<u>397</u> (B)																				
Prevalence Index = B/A = <u>4.14</u>																					
1. <u><i>Salix exigua</i></u>		<u>7</u>	Yes	FACW																	
2. <u><i>Rosa woodsii</i></u>		<u>15</u>	Yes	FACU																	
3. _____																					
4. _____																					
5. _____																					
		<u>22</u> =Total Cover																			
Herb Stratum	(Plot size: <u>5'x5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	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) ___ 5 - Wetland Non-Vascular Plants ¹ ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u><i>Schizachyrium scoparium</i></u>		<u>12</u>	Yes	FACU																	
2. <u><i>Pascopyrum smithii</i></u>		<u>15</u>	Yes	FACU																	
3. <u><i>Bouteloua gracilis</i></u>		<u>12</u>	Yes	UPL																	
4. <u><i>Muhlenbergia montana</i></u>		<u>10</u>	No	UPL																	
5. <u><i>Artemisia frigida</i></u>		<u>5</u>	No	UPL																	
6. <u>Other forbs</u>		<u>10</u>	No																		
7. _____																					
8. _____																					
9. _____																					
10. _____																					
11. _____																					
		<u>64</u> =Total Cover																			
Woody Vine Stratum	(Plot size: <u>30'x30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
1. _____																					
2. _____																					
		=Total Cover																			
% Bare Ground in Herb Stratum <u>36</u>																					

Remarks:

SOIL

Sampling Point: SP8

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	2.5Y 2.5/1	100					Sandy	Sandy loam
3-10	2.5Y 4/2	100					Loamy/Clayey	Loamy sand
10-24	2.5Y 4/4	100					Sandy	Gravelly sand

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)		

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

Restrictive Layer (if observed): Type: <u>N/A</u> Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



APPENDIX D:
OHWM DELINEATION DATA FORM

U.S. Army Corps of Engineers (USACE)
INTERIM DRAFT RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET

Form Approved - OMB No. 0710-0025 Expires: 01-31-2025

The proponent agency is Headquarters USACE CECW-CO-R.

AGENCY DISCLOSURE NOTICE

The public reporting burden for this collection of information, 0710-OHWM, is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Project ID #: Site Name: Arroya Lane Road Expansion Date and Time: 5/4/23, 10:43AM

Location (lat/long): 38.983692°N, -104.662377°W Investigator(s): Dan Maynard, Emily DeAlto

Step 1 Site overview from remote and online resources. Check boxes for online resources used to evaluate site: gage data, LiDAR, geologic maps, climatic data, satellite imagery, land use maps, aerial photos, topographic maps, Other.

Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? No, no extreme events. Rainier than normal spring thus far, according to Antecedent Precip. Tool

Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or man-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls etc.

The location is within the fluvial plain of Sand Creek, downgradient from the culvert under Arroya Lane. There is no change in sediment visible, no change in vegetation, and no topographic shifts within the floodplain at all. There is no flowing water, no water table, no defined bed or banks.

Step 3 Check the boxes next to the indicators used to identify the location of the OHWM. OHWM is at a transition point, therefore some indicators that are used to determine location may be just below and above the OHWM. From the drop-down menu next to each indicator, select the appropriate location of the indicator by selecting either just below 'b', at 'x', or just above 'a' the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and to attach a photo log.

Geomorphic indicators

Break in slope: on the bank, undercut bank, valley bottom, Other. Channel bar: shelving (berms) on bar, unvegetated, vegetation transition, sediment transition, upper limit of deposition on bar. Instream bedforms and other bedload transport evidence: deposition bedload indicators, bedforms. Erosional bedload indicators, Secondary channels, Sediment indicators: Soil development, Changes in character of soil, Mudcracks, Changes in particle-sized distribution, silt deposits.

Vegetation Indicators

Change in vegetation type and/or density: Check the appropriate boxes and select the general vegetation change (e.g., graminoids to woody shrubs). forbs to, graminoids to, woody shrubs to, deciduous trees to, coniferous trees to, Vegetation matted down and/or bent. Exposed roots below intact soil layer, Ancillary indicators: Wracking/presence of organic litter, Presence of large wood, Leaf litter disturbed or washed away, Water staining, Weathered clasts or bedrock.

Other observed indicators? Describe:

Project ID #: _____

Step 4 Is additional information needed to support this determination? Yes No If yes, describe and attach information to datasheet:

Step 5 Describe rationale for location of OHWM

There was no indication of an OHWM present. Sand Creek is a broad floodplain at this location, perhaps 100-115 feet wide. The edges of this floodplain are obvious based on two criteria: shifts in topography and vegetation. Vegetation is dominated by sandbar willows throughout the floodplain. These end at the edge of the floodplain/toe of slope and immediately transition to gramminoids. The slightest gain in elevation is enough to transition to gramminoids and away from woody veg. Importantly, the same gramminoids are present in the floodplain as an understory to the willows. The topographic shift at the toe of slope is not particularly notable. There is no evidence of scour or sediment changes, and no shift in the gramminoid layer (which would be typical at the OHWM break).

Additional observations or notes

See above, and see photos of the floodplain. No bed, no banks, no water or evidence of conveyance except in extreme events, no sediment changes. The area within the floodplain is a wetland, but there is no OHWM present.

Attach a photo log of the site. Use the table below, or attach separately.

Photo log attached? Yes No If no, explain why not: _____

List photographs and include descriptions in the table below.

Number photographs in the order that they are taken. Attach photographs and include annotations of features.

Photo Number	Photograph description
1	Scrub-shrub wetlands in the floodplain of Sand Creek. Toe of slope and vegetation shifts clearly visible. No OHWM present
2	Broader view of wetlands in the Sand Creek floodplain showing the mild topography
3	Wetlands north of Arroya Lane, similar to the prior photos. Toe of slope obvious, and veg changes are clear, but OHWM is lacking.
4	View of the culvert under Arroya Lane looking north. No channelization or bed/banks.
5	View looking south of Arroya at the other end of the culvert. Nothing to indicate an OHWM, just a broad, uniform fluvial plain.