

Technical Memorandum

To: El Paso County Planning and Community Development

From: SMH Consultants, Brett Louk

Date: 06/17/2020

Subject: Sedona Sun Acres Residential Subdivision Natural Features Report

INTRODUCTION

SMH Consultants P.A. (SMH) was asked to prepare a natural features report for the proposed Sedona Sun Acres Residential subdivision development in El Paso County, Colorado (project location; Figure 1). On June 12, 2020, SMH visited the project area to review potential natural features. The intent of this report is to provide information on existing site conditions and to identify any major lakes, streams, significant topographical features and wildlife that may be impacted by the proposed subdivision. The report will also identify any mitigation techniques, if necessary.

PROJECT SITE DESCRIPTION

SMH conducted a field visit to evaluate the existing project site for potential streams, wetlands, and any significant topographical features, as well as any potential wildlife habitats. The existing site is located at 13251 Vollmer Road, is approximately 37.7 acres in size, and is zoned RR-5. The site is proposed to be subdivided into four single-family residential lots. The four lots will be served by the two existing driveways. The project area is wooded open space bounded by Vollmer Rd. to the west, residential properties to the north, and open park space to the east and south. The site is located in what is known as the Black Forest in the Pine-Oak Woodlands ecoregion and is heavily covered in ponderosa pine woodlands and some low-level grasslands.

The existing site has two vegetated swales and some rolling hills. Primarily the project area supports woodland, grassland, and rangeland. There is also a noted increase in residential development in this region. During this visit, no streams, wetland hydrology, or wildlife was observed.

WETLANDS ASSEMSSMENT

In preparation for the field visit, SMH reviewed National Wetlands Inventory (NWI) maps, Federal Emergency Management Agency (FEMA) maps, and Natural Resources Conservation Service (NRCS) soil survey maps to see if there was any indication of wetlands or streams on the project site. SMH found no jurisdictional or navigable waters as identified, and protected, under Section 404 of the Clean Water Act. SMH recommends consultation with the U.S. Army Corps of Engineers for a jurisdictional

determination prior to work being conducted in the project area as a detailed wetland delineation was not performed at this time.

Review of the NWI maps showed a small wetland in the southern portion of the site (Figure 3). The NWI labels it as a Freshwater Emergent Wetland with a classification of PEM1C. Surface water may be present in these locations during the early growing season, but disappears by the end of the growing season. SMH did not see any visible surface water during the site visit. This wetland does not fall under protection of Section 404 of the Clean Water Act. Foundation design in this area should be completed by a licensed Colorado Professional Engineer prior to construction.

The project site is located within FEMA FIRM panel 08041C0320G (Figure 4), in El Paso County, Colorado. Upon review of the FEMA FIRM panel, SMH determined the project is located in Zone X. Zone X is defined as an area of minimal flood hazard and is at a higher elevation than the 0.2% annual flood chance.

The NRCS Soil Survey Map (Figure 5) shows that there are predominantly three types of soil present in the project area: Elbeth sandy loam, with 8 to 15 percent slopes, Kettle gravelly loamy sand, with 3 to 8 percent slopes, and Peyton-Pring complex, with 3 to 8 percent slopes. All three soil types are classified as hydric soils due to frequent ponding for long durations.

THREATENED, ENDANGERED, AND CANDIDIATE SPECIES

SMH reviewed documents pertaining to the Endangered Species Act (ESA), as well as, documents for state specific threatened and endangered species that may be impacted by the proposed development. Figure 7 shows the list of federally threatened and endangered species that could potentially be found in El Paso County. Figure 8 shows the list of state specific threatened and endangered species that could potentially be found in El Paso County. The Preble's Meadow Jumping Mouse is the only threatened or endangered species potentially located close to the project site; however, the project site is just outside the area where the Preble's Meadow Jumping Mouse is typically found. SMH did not see any critical habitat during the site visit. Therefore, the project will have no effect on federally or state specific threatened and endangered species.

SUMMARY & RECOMMENDATION

In summary, SMH found no indication or evidence of major lakes, streams, topographical features, and wildlife habitats that would be impacted by the proposed subdivision. The proposed subdivision will have no adverse impacts on jurisdictional waters or federally and state threatened and endangered species.

FIGURES:



Figure 1: Project Site Location

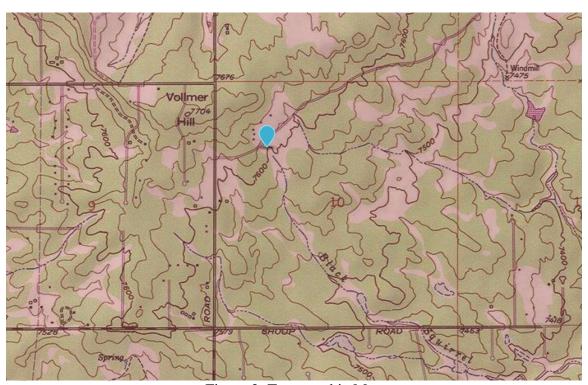


Figure 2: Topographic Map



Figure 3: Site Plan

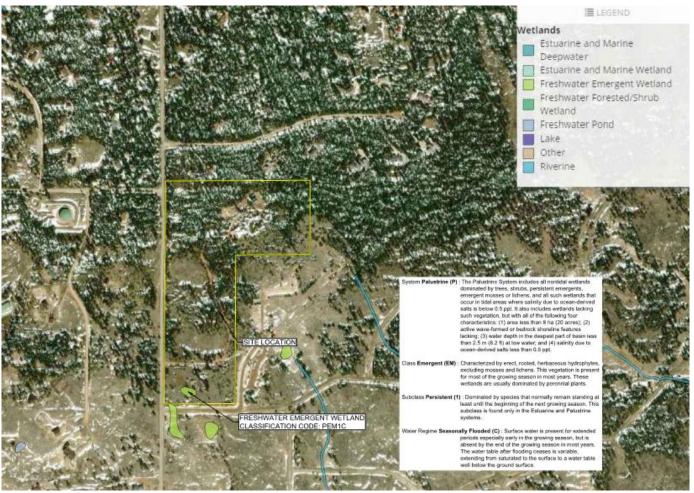


Figure 4: National Wetlands Inventory Map

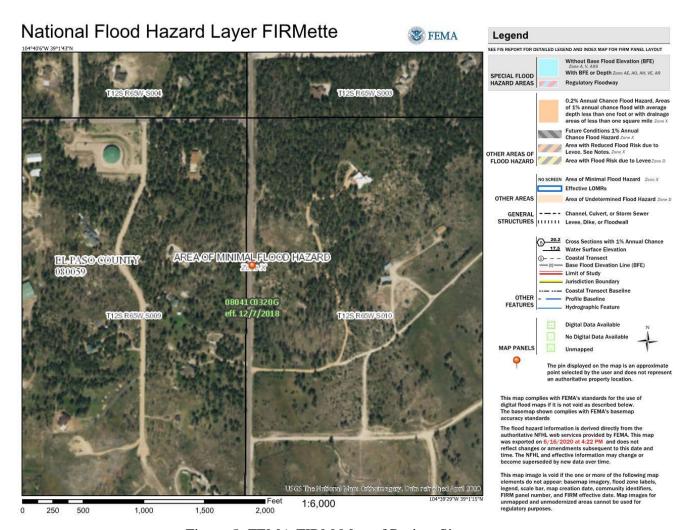


Figure 5: FEMA FIRM Map of Project Site

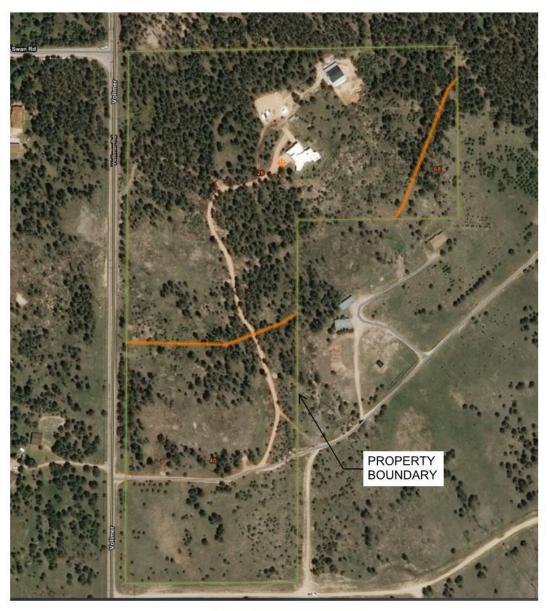




Figure 6: Soil Survey Map

Group	Common Name	Scientific Name	Population	Status
Birds	Mexican spotted owl	Strix occidentalis lucida	Wherever found	Threatened
Fishes	Greenback Cutthroat trout	Oncorhynchus clarkii stomias	Wherever found	Threatened
Flowering Plants	Ute ladies'-tresses	Spiranthes diluvialis	Wherever found	Threatened
Flowering Plants	Western prairie fringed Orchid	Platanthera praeclara	Wherever found	Threatened
Insects	Pawnee montane skipper	Hesperia leonardus montana	Wherever found	Threatened
Mammals	Preble's meadow jumping mouse	Zapus hudsonius preblei	wherever found	Threatened

Figure 7: Federally threatened or endangered species found in El Paso County, Colorado

Group	Common Name	Scientific Name	Status
Amphibians	Boreal Toad	Bufo boreas boreas	State Endangered
Birds	Burrowing Owl	Athene cunicularia	State Threatened
Birds	Least Tern	Sterna antillarum	State Endangered
Birds	Lesser Prairie-Chicken	Tympanuchus pallidicinctus	State Threatened
Birds	Mexican Spotted Owl	Strix occidentalis lucida	State Threatened
Birds	Plains Sharp-Tailed Grouse	Tympanuchus phasianellus jamesii	State Endangered
Birds	Piping Plover	Charadrius melodus circumcinctus	State Threatened
Birds	Southwestern Willow Flycatcher	Empidonax traillii extimus	State Endangered
Birds	Whooping Crane	Grus americana	State Endangered
Fish	Arkansas Darter	Etheostoma cragini	State Threatened
Fish	Bonytail	Gila elegans	State Endangered
Fish	Brassy Minnow	Hybognathus hankinsoni	State Threatened
Fish	Colorado Pikeminnow	Ptychocheilus lucius	State Threatened
Fish	Common Shiner	Luxilus cornutus	State Threatened
Fish	Greenback Cutthroat Trout	Oncorhynchus clarki stomias	State Threatened
Fish	Humpback Chub	Gila cypha	State Threatened
Fish	Lake Chub	Couesius plumbeus	State Endangered
Fish	Northern Redbelly Dace	Phoxinus eos	State Endangered
Fish	Plains Minnow	Hybognathus placitus	State Endangered
Fish	Rio Grande Sucker	Catostomus plebeius	State Endangered
Fish	Razorback Sucker	Xyrauchen texanus	State Endangered
Fish	Southern Redbelly Dace	Phoxinus erythrogaster	State Endangered
Fish	Suckermouth Minnor	Phenacobius mirabilis	State Endangered
Mammals	Black-Footed Ferret	Mustela nigripes	State Endangered
Mammals	Gray Wolf	Canis lupus	State Endangered
Mammals	Grizzly Bear	Ursus arctos	State Endangered
Mammals	Kit Fox	Vulpes macrostis	State Endangered
Mammals	Lynx	Lynx canadenis	State Endangered
Mammals	Preble's Meadow Jumping Mouse	Zapus hudsonius preblei	State Threatened
Mammals	River Otter	Lontra canadenis	State Threatened
Mammals	Wolverine	Gulo gulo	State Endangered

Figure 8: State threatened or endangered species found in Colorado

PHOTOS Taken on June 12, 2020



Photo 1: View to the north from entrance dive.

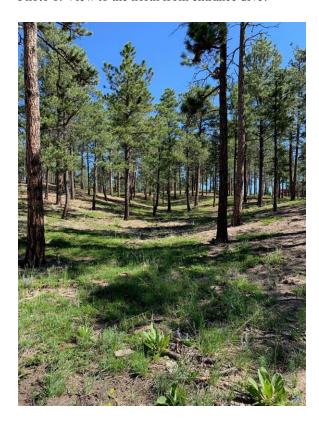


Photo 3: Bottom of Swale #1. View to the south.



Photo 2: View to the south from entrance drive.



Photo 4: Top of Swale #1. View to the north.



Photo 5: Views to the south from the north end of the property.



Photo 7: Views from the top of Swale #2 to the south.



Photo 6: Views from top of Swale #2 to the south.



Photo 8: Views from the bottom of Swale #2 to the north.



Photo 9: Views to the west from the existing drive.



Photo 10: Views to the east from the existing drive.