

APPENDIX D

PALEONTOLOGICAL RECORD SEARCH RESULTS

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April 24, 2022

Kimley-Horn
Attn: Serena Lin

re: Paleontological resources for the 2219 West Orange Avenue Project

Dear Serena:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the 2219 West Orange Avenue project area as outlined on the portion of the Anaheim USGS topographic quadrangle map that you sent to me via e-mail on April 13, 2022. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 1652	Rio Vista Avenue south of Lincoln Avenue	Alluvium (Pleistocene)	Sheep (<i>Ovis</i>)	Unknown (excavations for housing project)
LACM VP 4185-4201	Coyote Creek, adjacent to Ralph B Clark Regional Park in West Coyote Hills	La Habra Formation (Pleistocene; sandy silt shot through with caliche)	Bison (<i>Bison</i>), camel (<i>Camelops</i>), horse (<i>Equus</i>), mammoth (<i>Mammuthus</i>), mastodon (<i>Mamut</i>), elephant clade (Proboscidea), dire wolf (<i>Canis dirus</i>), Coyote (<i>C. latrans</i>), deer (<i>Odocoileus</i>), dwarf pronghorn (<i>Capromeryx</i>), unidentified artiodactyl; sea duck (<i>Chendytes</i>)	Surface, in creek bed
LACM VP 7657-7659	Ellis Avenue & Patterson Lane, Huntington Beach	Unknown Formation (Pleistocene; gray siltstone)	School shark (<i>Galeorhinus</i>), eagle ray (<i>Myliobatus</i>), goby (<i>Lepidogobius</i> , <i>Leptocottus</i>), midshipmen (<i>Porichthys</i>), croaker (<i>Seriphus</i>), flatfish (<i>Citharichthys</i>), cusk-eel (<i>Otophidium</i>), skate (<i>Raja</i>), angelshark (<i>Squatina</i>), sculpin (Cottidae)	150 - 350 feet bgs
LACM VP 3291	Sunset Beach at low tide, 50 yards north of	Unknown Formation (Pleistocene)	Camel (<i>Camelops hesternus</i>)	Surface

	Anderson Street & west of Pacific Coast Highway			
LACM VP 3660	Cover St & Pixie Ave; Lakewood	Unknown formation (Pleistocene)	Mammoth (<i>Mammuthus</i>)	19 feet bgs
			Invertebrates (snails; clams; tusk shells; barnacles; crabs; sea urchins); requiem shark (<i>Carcharhinus</i>), Spotted cusk eel (<i>Chilara</i>), croakers (<i>Genyonemus</i> , <i>Seriphus</i>), school shark (<i>Galeorhinus</i>), righteye flounder (<i>Glyptocephalus</i>), guitarfish (<i>Rhinobatos</i>), toadfish (<i>Porichthys</i>), perch (<i>Cymatogaster</i> , <i>Damalichthys</i>), bullhead shark (<i>Heterodontus</i>), ray (<i>Dasyatis</i> , <i>Myliobatus</i> , <i>Raja</i>), surfperch (<i>Embiotoca</i> , <i>Hyperprosopon</i> , <i>Micrometrus</i>), flatfish (<i>Citharichthys</i>), leopard shark (<i>Triakis</i>), slender sole (<i>Lyopsetta</i>), dogfish shark (<i>Squalus</i>), skate (<i>Squatina</i>), barracuda (<i>Sphyræna</i>)	
LACM VP 7739	Bluff Park (on the beach adjacent to the eastern half of the southern edge of the parking lot); Long Beach	Late Pleistocene* coastal deposits (dark gray massive sandy silt)		56 feet bgs

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

**Locality is 25 feet below carbon-14 accelerator mass spectrometry date of 43180 +/-710 years*

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,



Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice