

Appendix IS-4

Paleontological Resources Records Search Results

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22 April 2019

Eyestone Environmental
2121 Rosecrans Avenue, Suite 3355
El Segundo, CA 90245

Attn: Stephanie Eyestone-Jones, President

re: Paleontological resources for the proposed Our Lady of Mt. Lebanon Project, in the City of Los Angeles, Los Angeles County, project area

Dear Stephanie:

I have conducted a thorough check of our paleontology collection records for the locality and specimen data for the proposed Our Lady of Mt. Lebanon Project, in the City of Los Angeles, Los Angeles County, project area as outlined on the portion of the Beverly Hills USGS topographic quadrangle map that Ashley Munoz sent to me via e-mail on 8 April 2019. We do not have any vertebrate fossil localities that occur within the proposed project area boundaries, but we do have vertebrate fossil localities nearby from the same sedimentary rock units that may occur at depth in the proposed project area.

The entire proposed project area has surficial deposits that consist of younger Quaternary Alluvium, derived as alluvial fan deposits from the Santa Monica Mountains to the north. These deposits usually do not contain significant vertebrate fossils, at least in the uppermost layers, but they are underlain by older Quaternary deposits at varying but relatively shallow depths that do contain significant vertebrate fossils. The older Quaternary Alluvium deposits grade down into even older Quaternary deposits typically referred to as the Palos Verdes Sand in this area.

Immediately north of the proposed project area, around the intersection of 3rd Street and San Vicente, our older Quaternary locality LACM 7672 from the Hollyhills Drain produced fossil specimens of deer, Cervidae, and elephantoid, Proboscidea, at unstated depth. Also at

unknown depth from excavations for the Hollyhills Drain, further south along San Vicente Boulevard between Colgate Avenue and Drexel Avenues, our vertebrate fossil locality LACM 7671 produced fossil specimens of mastodon, *Mammut*. Other vertebrate fossil localities from the Hollyhills Drain excavations, LACM 7669 and LACM 7770, occur a little further to the south-southeast along San Vicente Boulevard near the intersections with Wilshire Boulevard and Orange Street respectively, that produced fossil specimens of ground sloth, *Xenarthra*, elephantoid, Proboscidea, and bison, *Bison*, at unstated depth. Just to the west of these latter localities, at the intersection of La Cienga Boulevard and Wilshire Boulevard, our vertebrate fossil locality LACM 3176, produced fossil specimens of bison, *Bison*, at a depth of 30 feet below the surface. Further south near the proposed project area, just north of Olympic Boulevard just east of Schumacher Drive, our vertebrate fossil locality LACM 3329 produced fossil specimens of bison, *Bison*, and horse, *Equus*, at a depth of 16 feet below street level during excavation for the North Outfall Sewer. A little further east along Olympic Boulevard at Alvira Street, our vertebrate fossil locality LACM 1238 produced a fossil specimen of mammoth, *Mammuthus*, at a depth of 13 feet below the surface during excavations for flood control.

Just to the north of the proposed project area, near the intersection of La Cienega Boulevard and Oakwood Avenue, our older Quaternary locality LACM 7966 produced fossil specimens of plants and invertebrates as well as the vertebrates bird, Aves, ground sloth, *Paramylodon harlani*, mastodon, *Mammut americanum*, rabbits, *Sylvilagus* and *Lepus californicus*, meadow mouse, *Microtus californicus*, pocket gopher, *Thomomys bottae*, squirrel, Sciuridae, horse, *Equus occidentalis*, and camel, *Camelops hesternus*. Immediately northwest of locality LACM 7966, near the intersection of Rosewood Avenue and Westbourne Drive, our older Quaternary locality LACM 7673 produced a specimen of fossil horse, *Equus*, at unstated depth in excavations for the Hollyhills Drain.

We have a great number of vertebrate fossil localities further east of the proposed project area at the internationally famous Ranch La Brea deposits in Hancock Park and from Brea deposits in the surrounding area. These Brea deposits apparently do not extend as far north, south or west as the proposed project area.

Shallow excavations in the younger Quaternary Alluvium exposed throughout the proposed project area are unlikely to uncover significant vertebrate fossils. Deeper excavations in the proposed project area that extend down into older Quaternary deposits, however, may well encounter significant vertebrate fossil remains. Any substantial excavations below the very uppermost layers in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains discovered while not impeding development. Also, sediment samples should be collected and processed to determine the small fossil potential in the proposed project area. Any fossils collected should be placed in an accredited scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

A handwritten signature in cursive script that reads "Samuel A. McLeod". The signature is written in black ink and is positioned above the typed name.

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice