

Appendix G

Paleontological Records Results





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July 24, 2019

Dr. Samuel A. McLeod, Collections Manager
Natural History Museum of Los Angeles County
900 Exposition Blvd.
Los Angeles, California 90007

Subject: Paleontological Records Search Request for the Costa Mesa EF International Language Campus Project, City of Costa Mesa, California (D160255.02)

Dear Dr. McLeod:

Environmental Science Associates (ESA) is preparing documentation for an Initial Study/Mitigated Negative Declaration for the Costa Mesa EF International Language Campus Project (Project) in the City of Costa Mesa. The Project would include the development of an EF International Language Campus, which would consist of the renovation of the existing three-story (approximately 44-feet tall), 68,000 square foot building to create approximately 50 classrooms, a student services area, cafeteria, and faculty/staff offices; the development of up to three residential buildings; surface parking areas; and recreational facilities and landscaping.

The Project Site is located in an unsectioned portion of Township 6 South, Range 10 West on the Newport Beach, CA U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle (**Figure 1**).

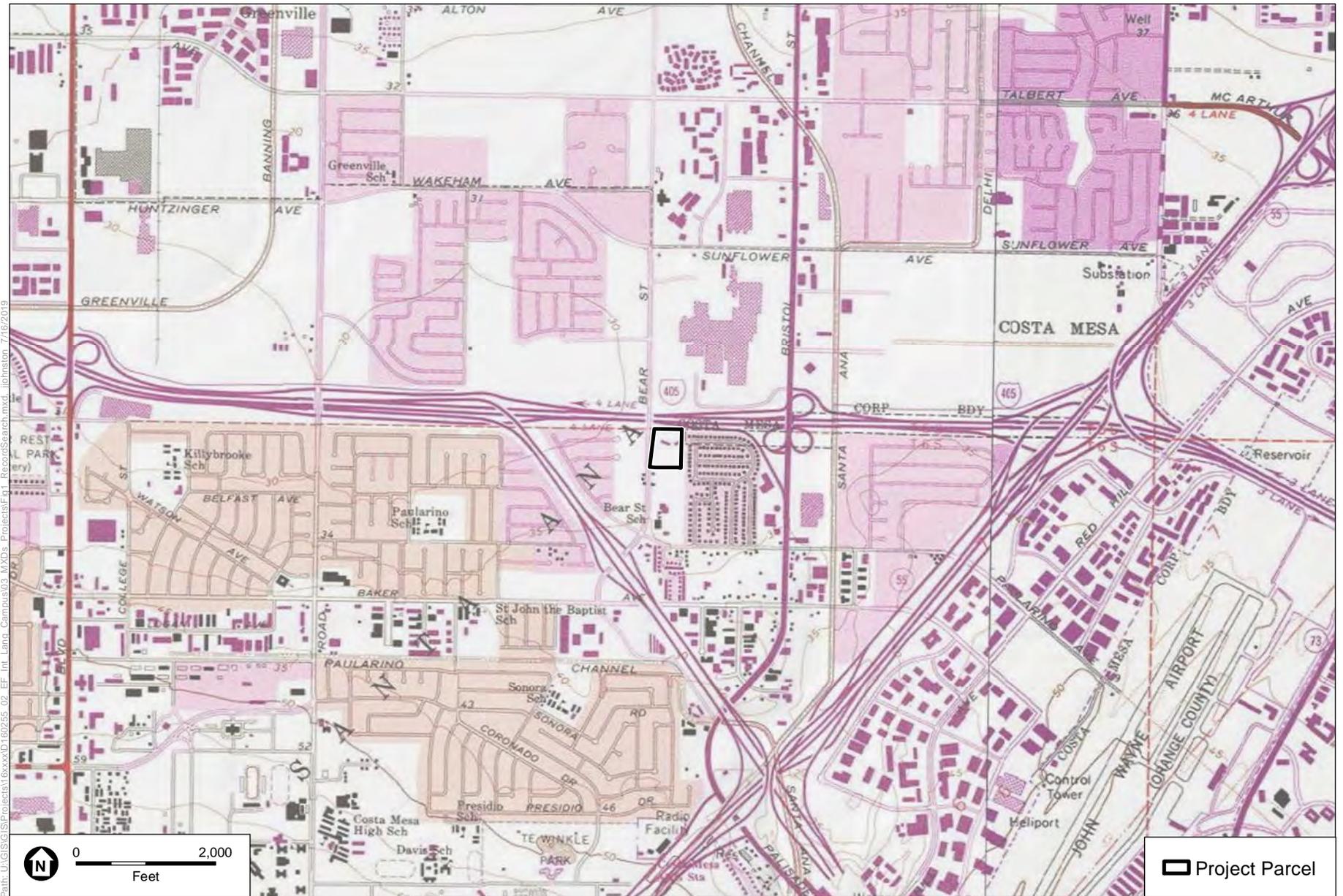
In an effort to provide an adequate appraisal of all potential impacts that may result from the Project, ESA is requesting that a paleontological resource records search be conducted to identify paleontological resources that may exist within the Project Site.

Thank you for your cooperation on this matter. If you have any questions, please contact me via telephone at 949.753.7001, or email me at fclark@esassoc.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Fatima Clark', written in a cursive style.

Fatima Clark
Archaeologist



SOURCE: USGS 7.5' Topo Quad Newport Beach 1977; Tustin 1977

EF International Language Campus Project

Figure 1
Records Search Map

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7 August 2019

Environmental Science Associates
2121 Alton Parkway, Suite 100
Irvine, CA 92606

Attn: Fatima Clark, Archaeologist

re: Paleontological resources for the proposed Costa Mesa EF International Language Campus Project, ESA Project # D160255.02, in the City of Costa Mesa, Orange County, project area

Dear Fatima:

I have thoroughly searched our paleontology collection records for the locality and specimen data for the proposed Costa Mesa EF International Language Campus Project, ESA Project # D160255.02, in the City of Costa Mesa, Orange County, project area as outlined on the portion of the Newport Beach USGS topographic quadrangle map that you sent to me via e-mail on 24 July 2019. We have no vertebrate fossil localities that lie directly within the boundaries of the proposed project area, but we do have localities nearby from sedimentary deposits similar to those that occur at depth in the proposed project area.

The entire proposed project area has surface deposits composed of younger Quaternary Alluvium, derived broadly as alluvial fan deposits from the Santa Ana Mountains to the east via the Santa Ana River that currently flows just to the west. These deposits typically do not contain significant vertebrate fossils in the uppermost layers, but they are usually underlain by older Quaternary deposits that frequently do contain significant vertebrate fossils. Our closest vertebrate fossil locality from these deposits is LACM 4219, south-southwest of the proposed project area in a roadcut for the Newport Freeway near Santa Isabel Avenue, that produced fossil sea turtle, Cheloniidae, and camel, Camelidae, bones in coarse poorly sorted friable sands about 30 feet below the grade of Newport Boulevard. Further to the southwest of the proposed project

area, near the intersection of 19th Street and Anaheim Avenue, our locality LACM 3267 produced a fossil specimen of undetermined elephant, Proboscidea. West-southwest of the proposed project area, along Adams Avenue near the top of the mesa bluffs east of the Santa Ana River, our locality LACM 1339, produced fossil specimens of mammoth, *Mammuthus*, and camel, Camelidae, bones in sand approximately 15 feet below the top of the mesa that is overlain by shell bearing silts and sands. We further have a large number of localities from the marine and terrestrial late Pleistocene terrace deposits on the east side of Upper Newport Bay. Those localities have produced an extensive composite fauna.

Surface grading or very shallow excavations in the younger Quaternary Alluvium exposed throughout the proposed project area probably will not uncover significant vertebrate fossil remains. Deeper excavations that extend down into older Quaternary deposits, however, may well encounter significant fossil vertebrate specimens. Any substantial excavations 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 recovered during mitigation should be deposited in an accredited and permanent 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".

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice